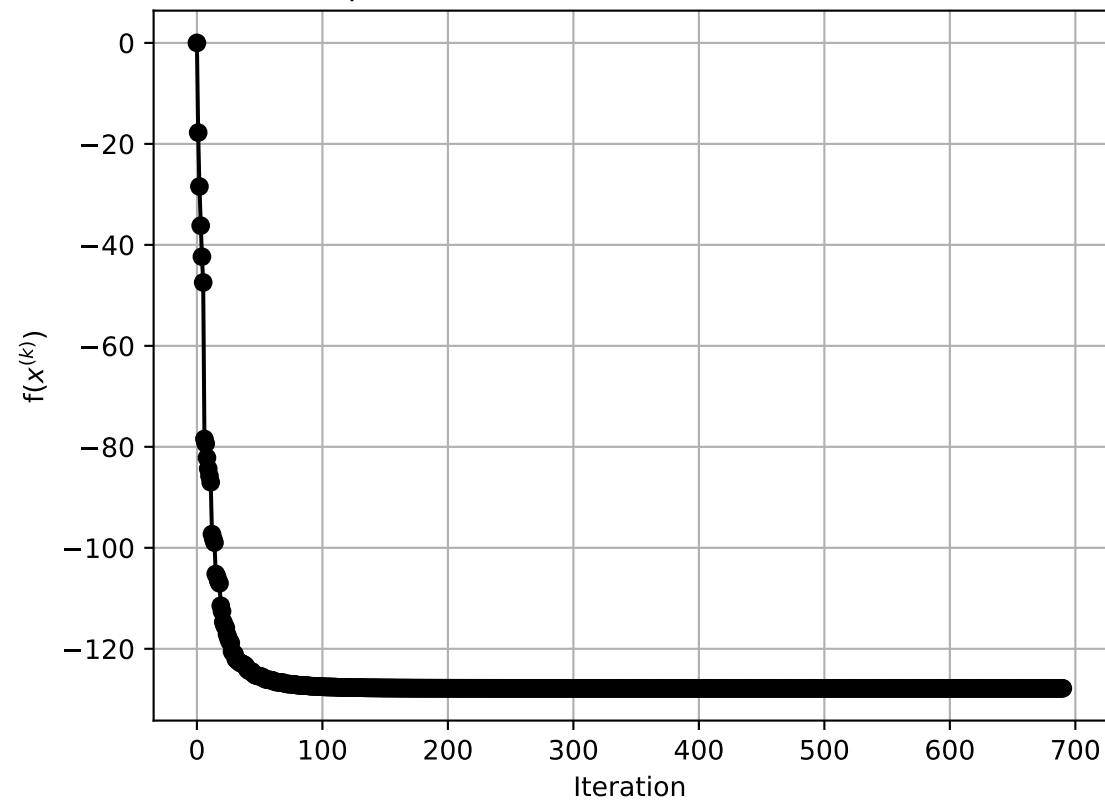
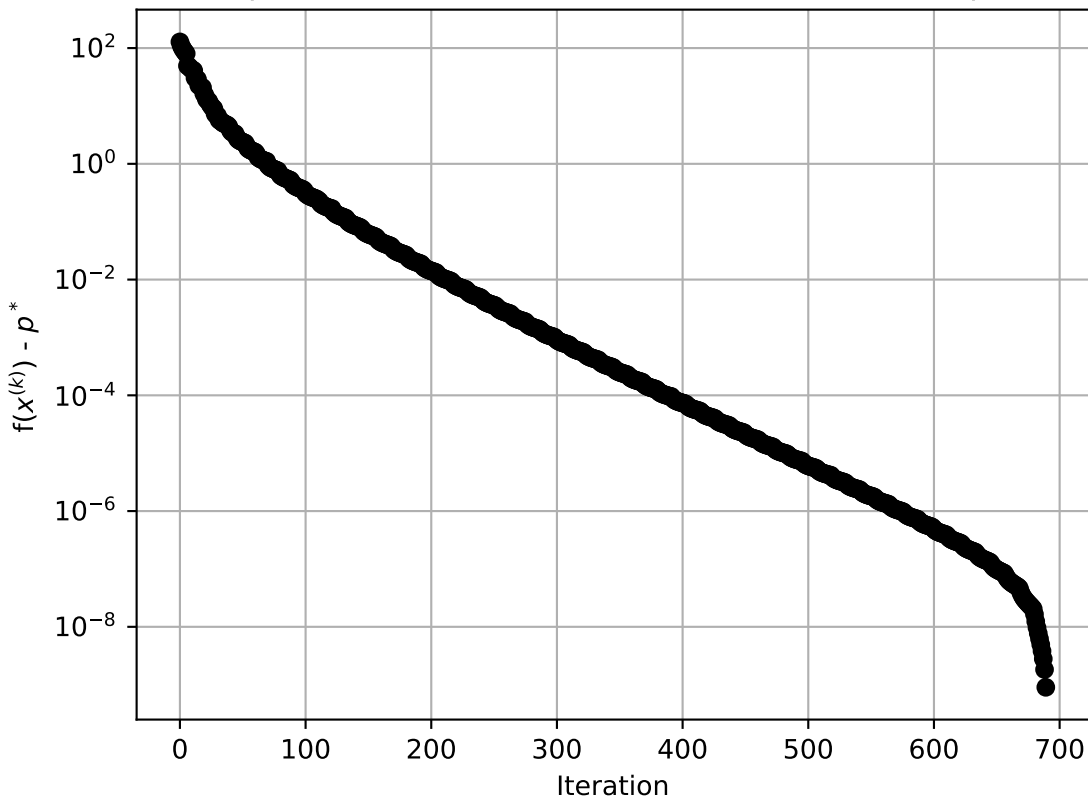


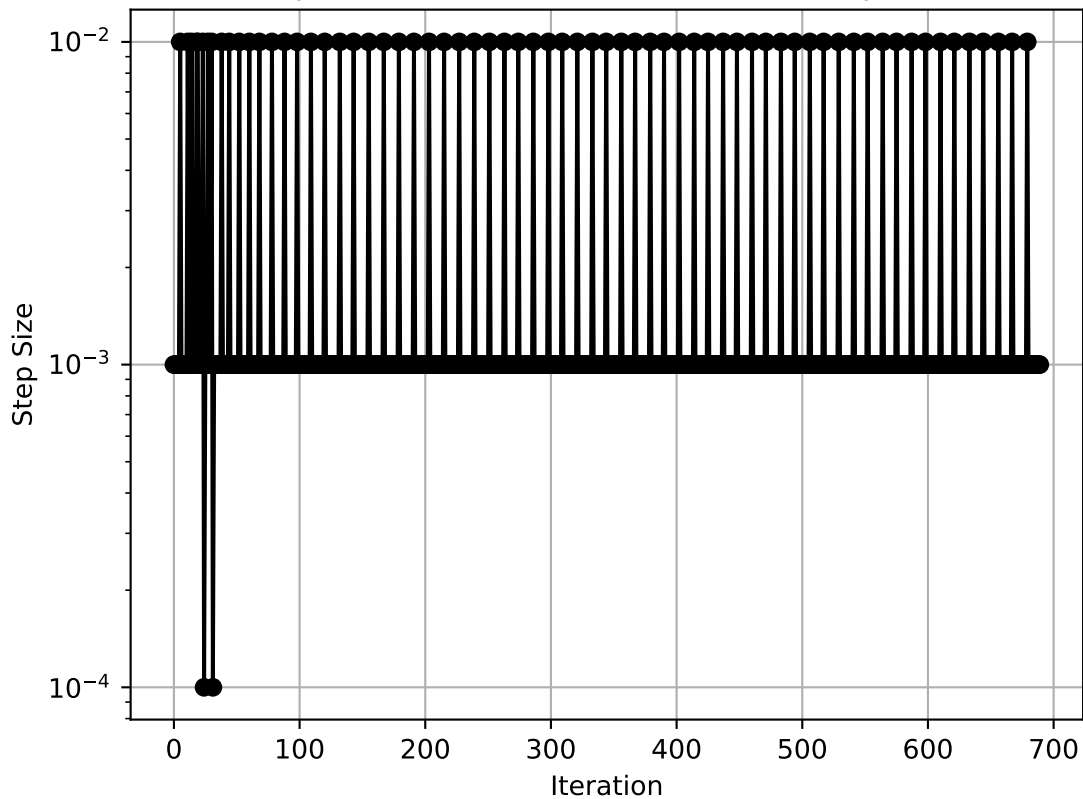
Experiment #1 Gradient Descent: $f(x^{(k)})$



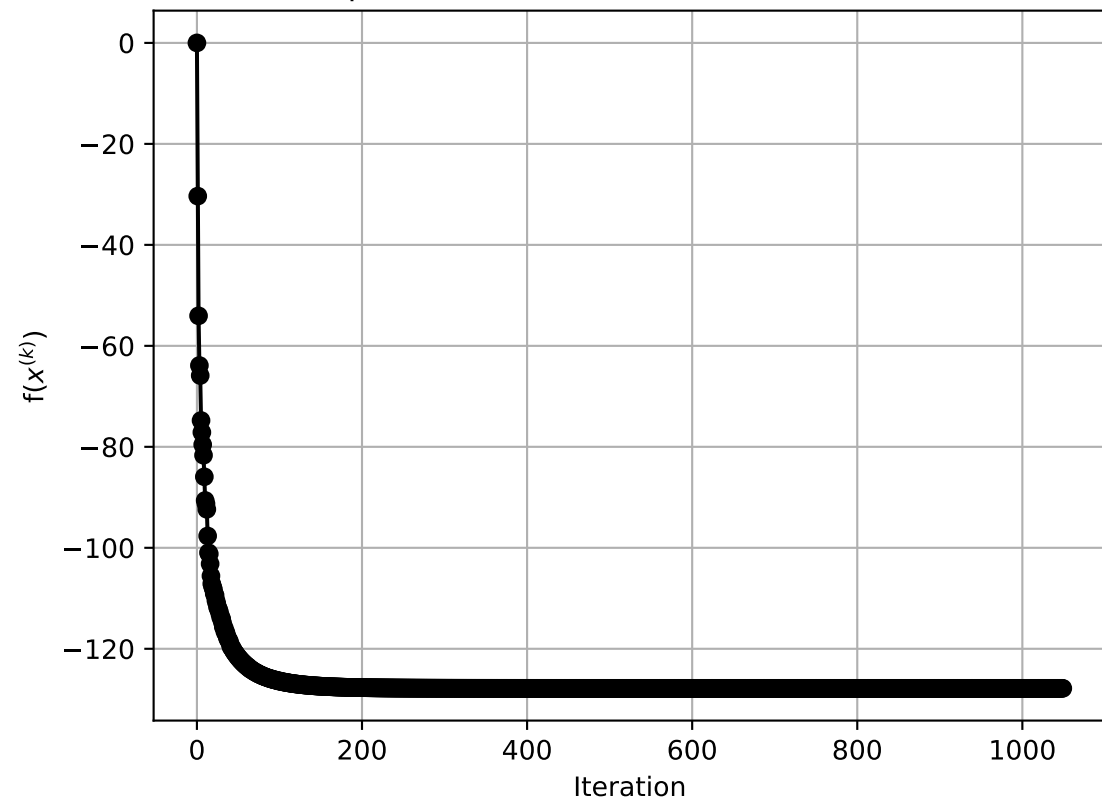
Experiment #1 Gradient Descent: Error $f(x^{(k)}) - p^*$



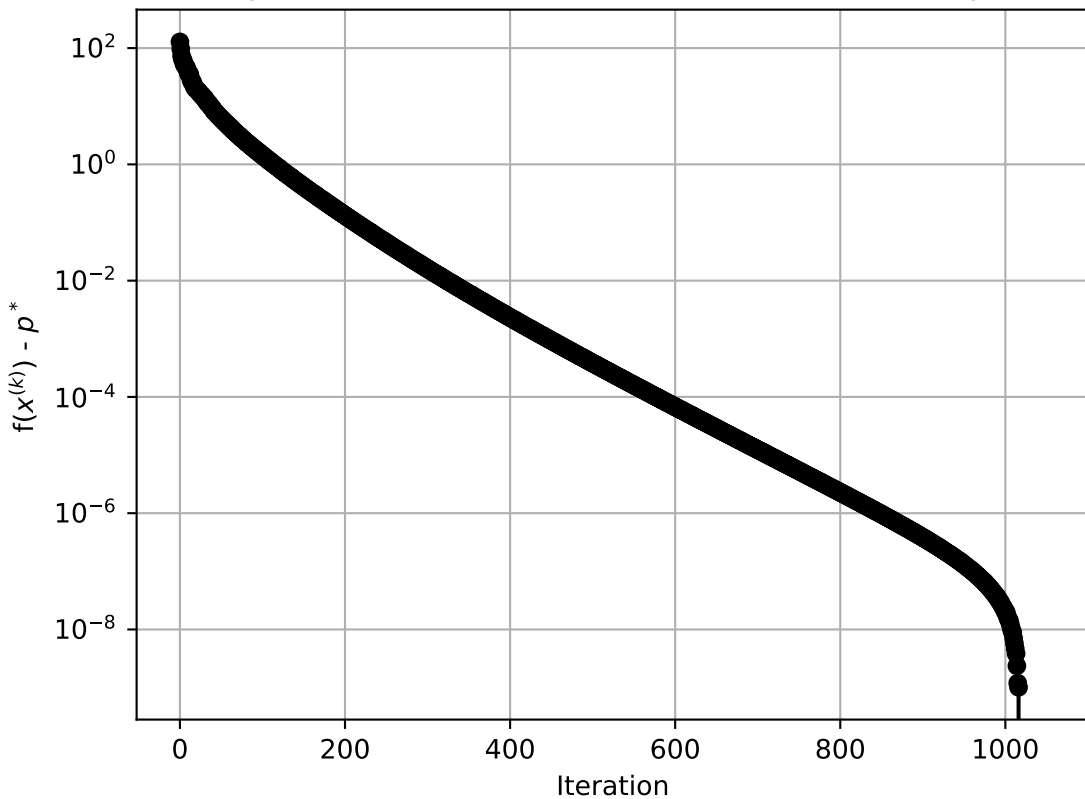
Experiment #1 Gradient Descent: Step Size



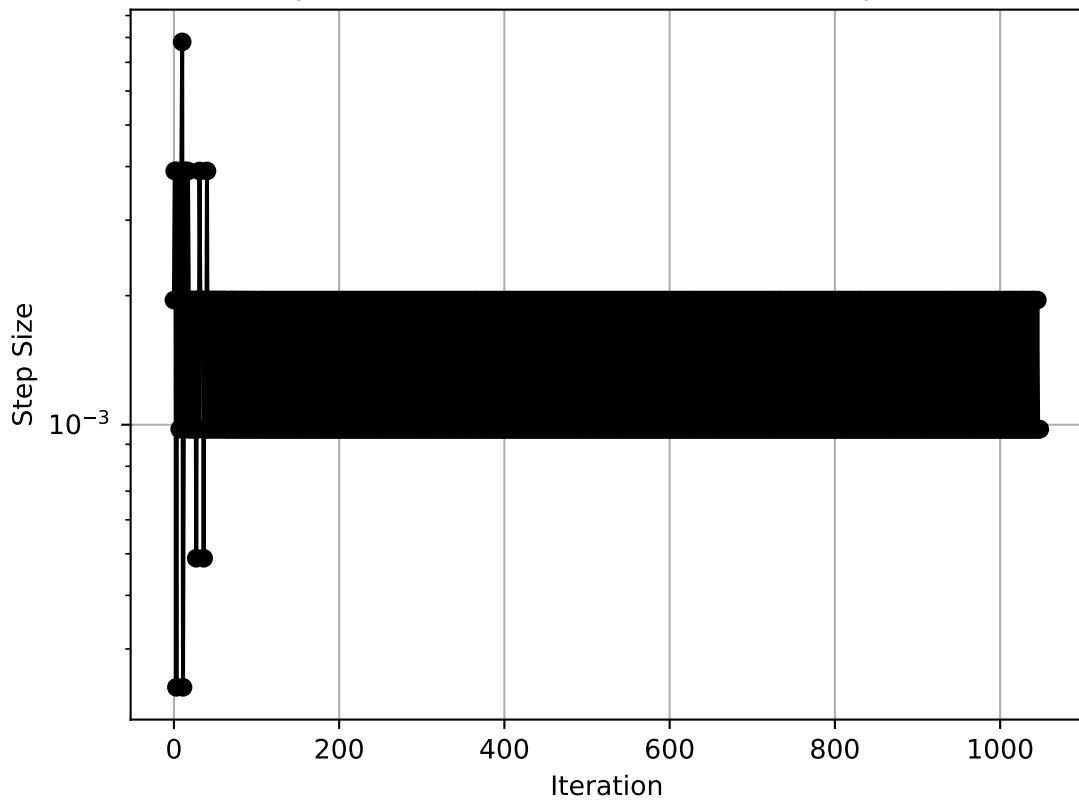
Experiment #2 Gradient Descent: $f(x^{(k)})$



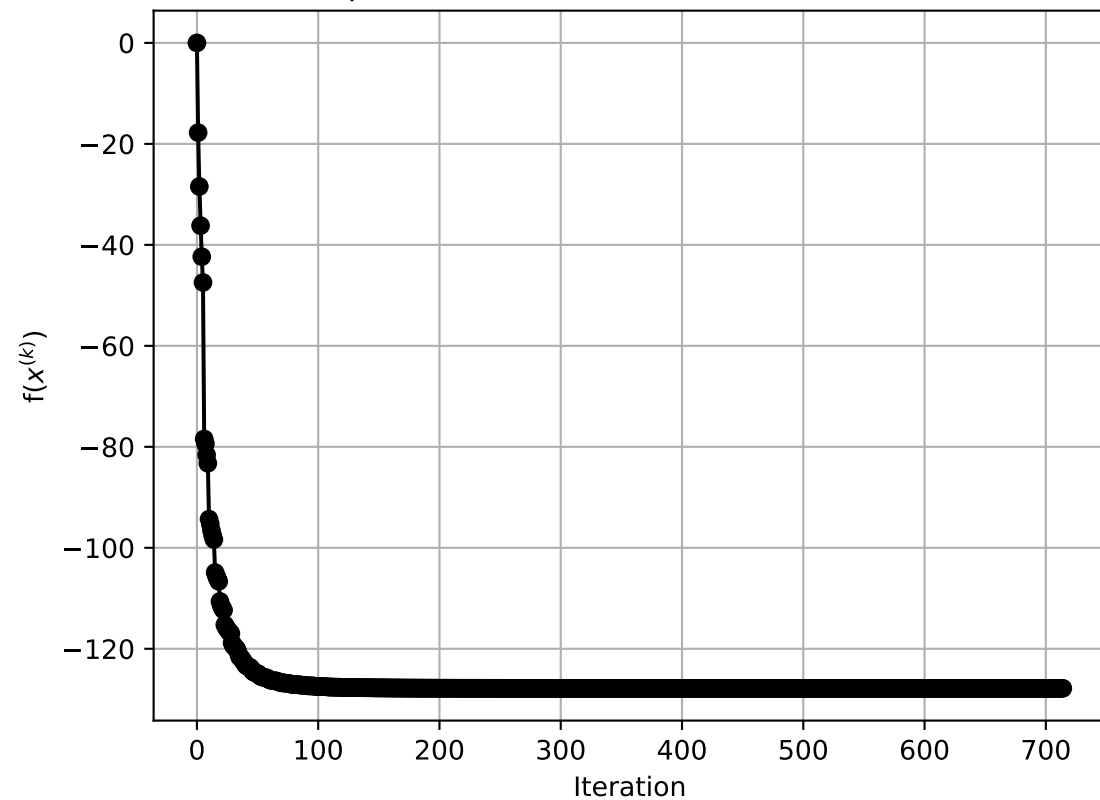
Experiment #2 Gradient Descent: Error $f(x^{(k)}) - p^*$



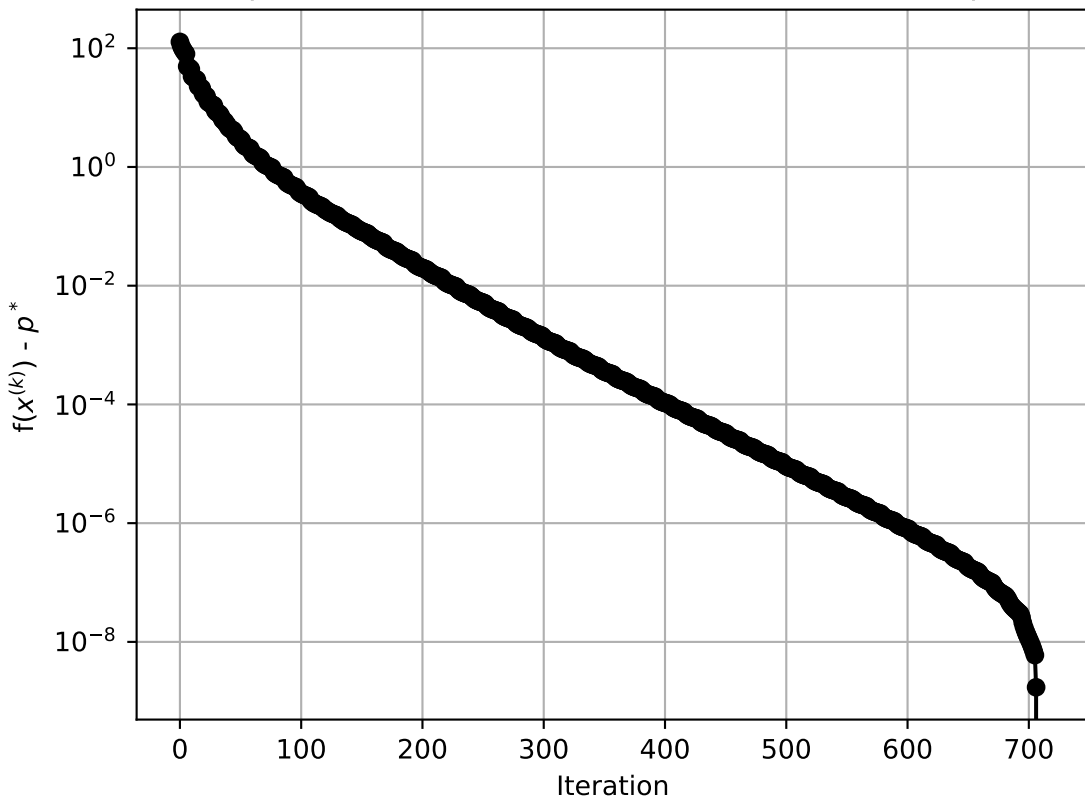
Experiment #2 Gradient Descent: Step Size



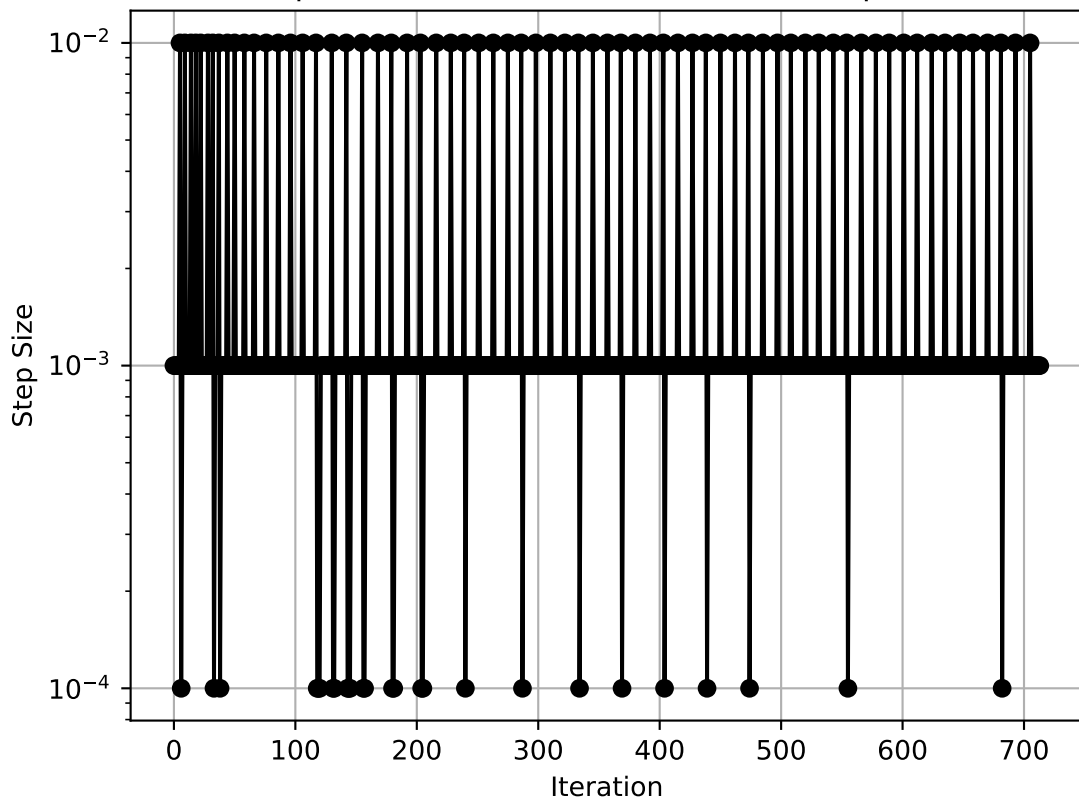
Experiment #3 Gradient Descent: $f(x^{(k)})$



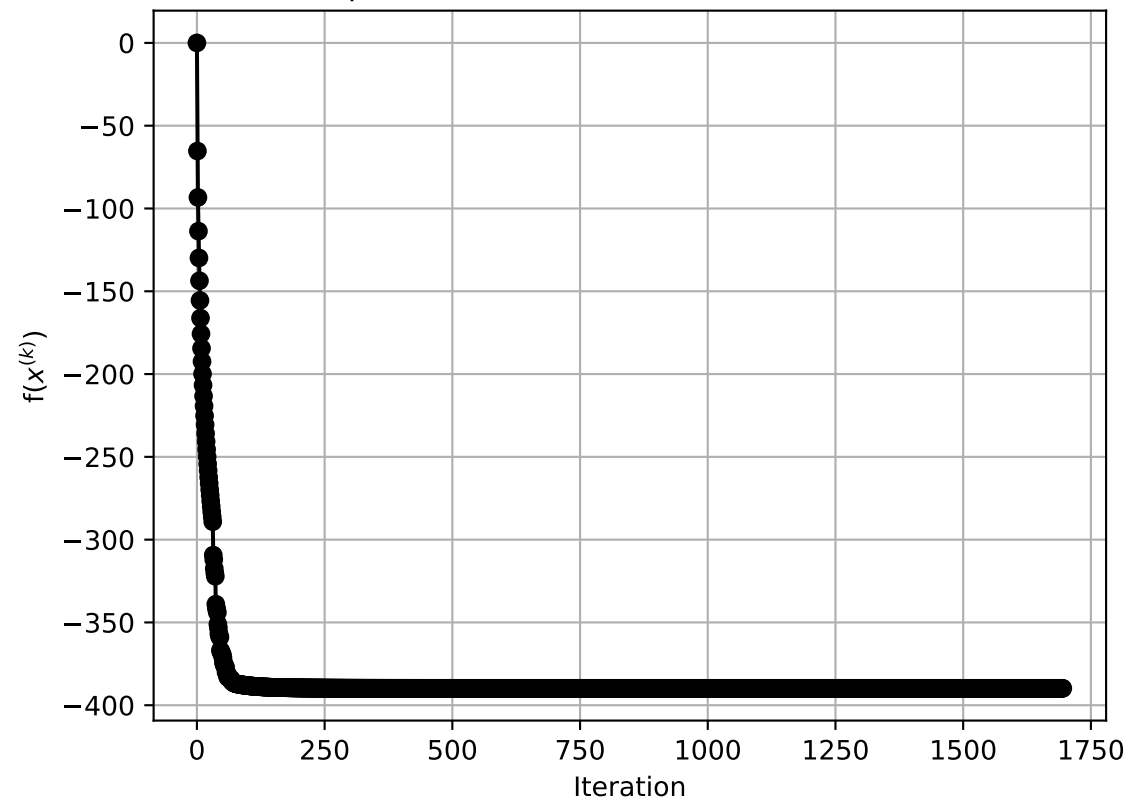
Experiment #3 Gradient Descent: Error $f(x^{(k)}) - p^*$



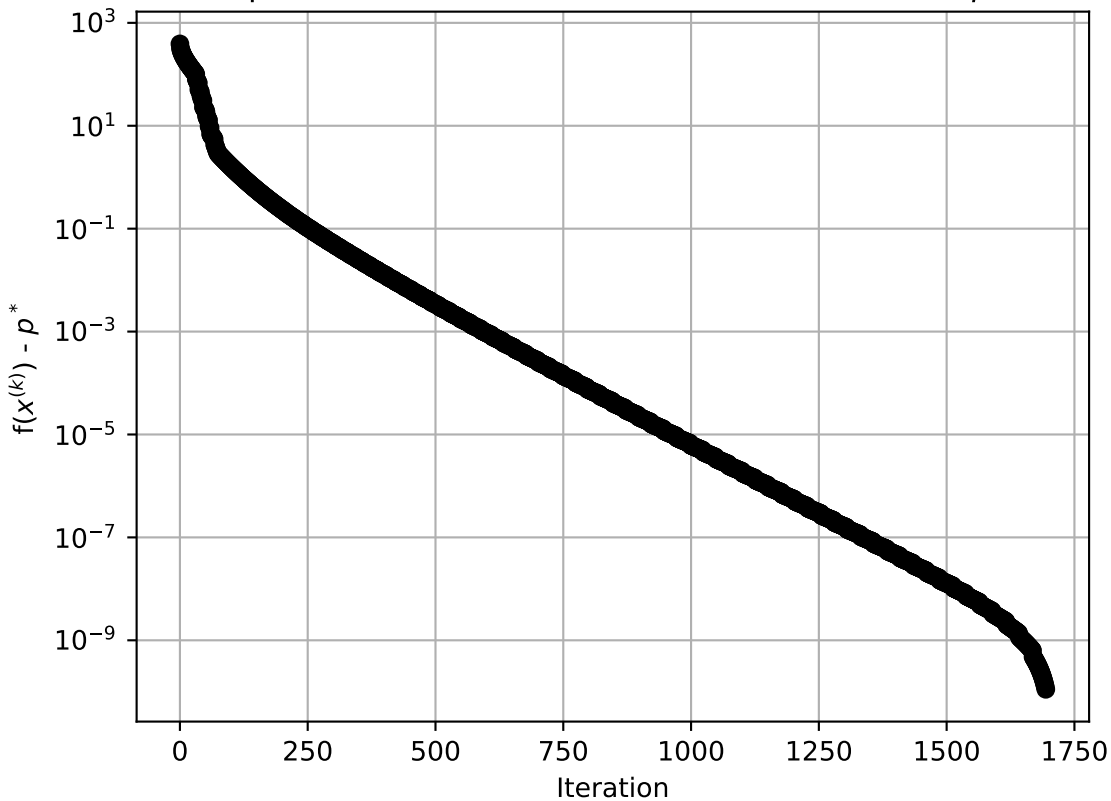
Experiment #3 Gradient Descent: Step Size



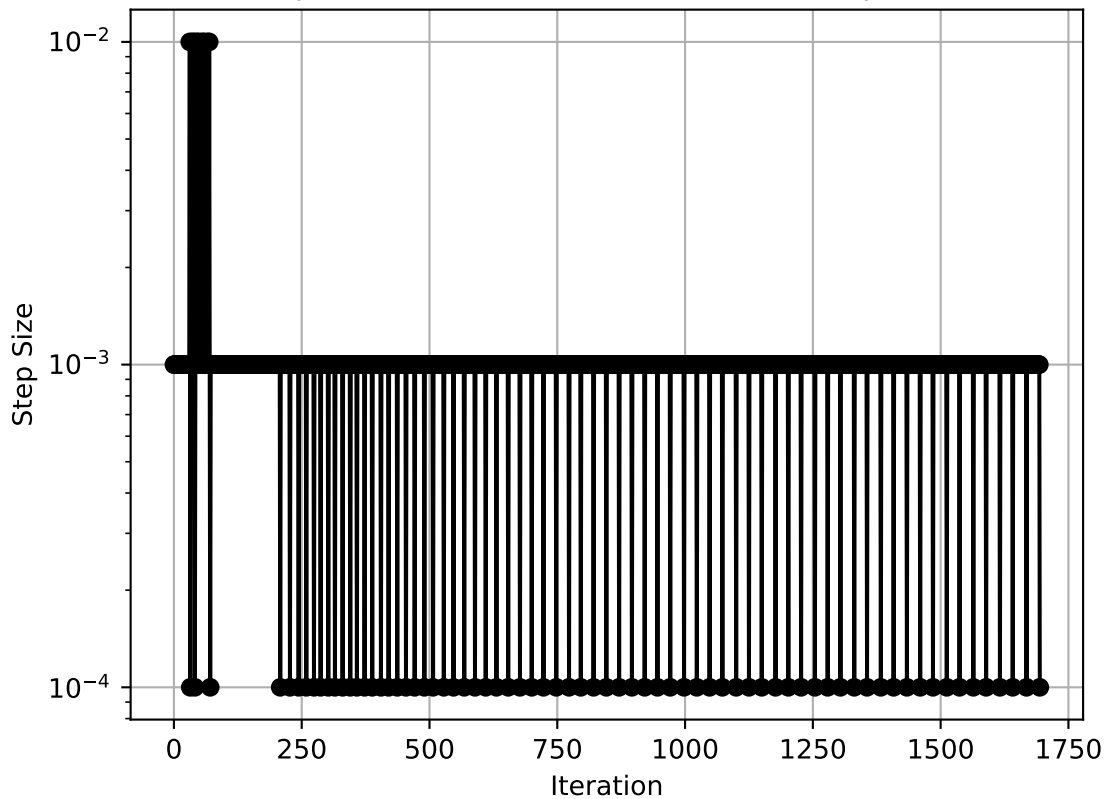
Experiment #4 Gradient Descent: $f(x^{(k)})$



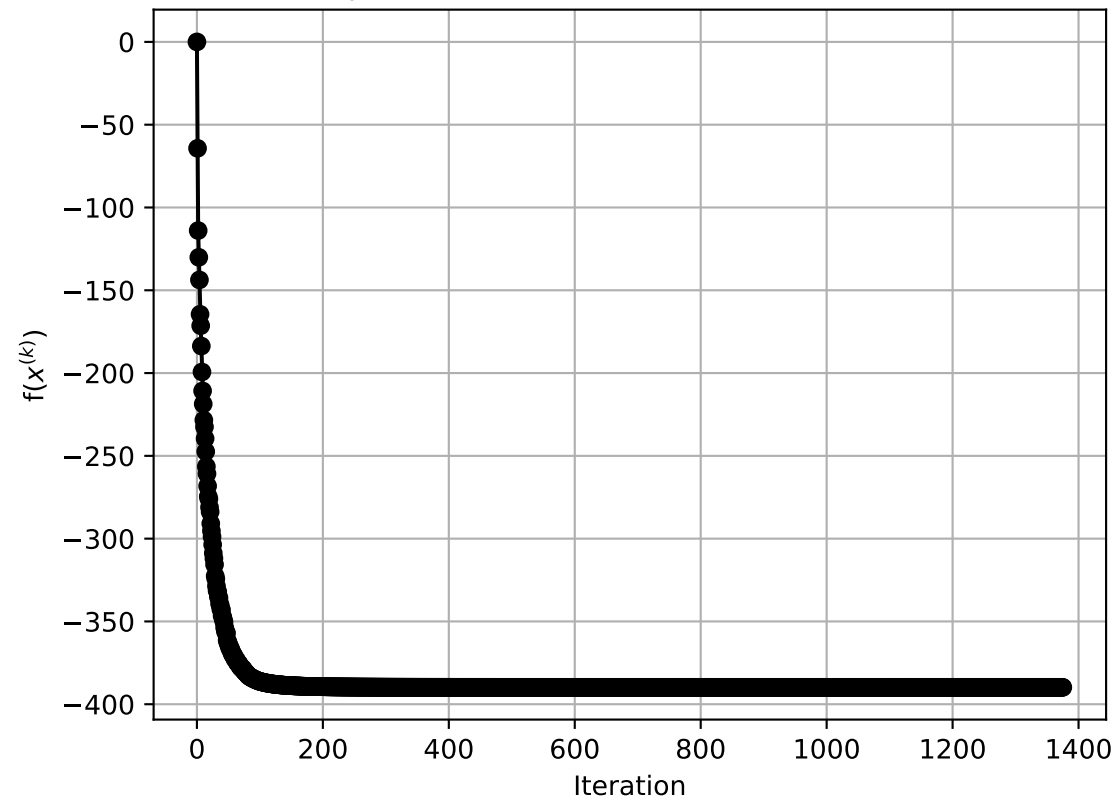
Experiment #4 Gradient Descent: Error $f(x^{(k)}) - p^*$



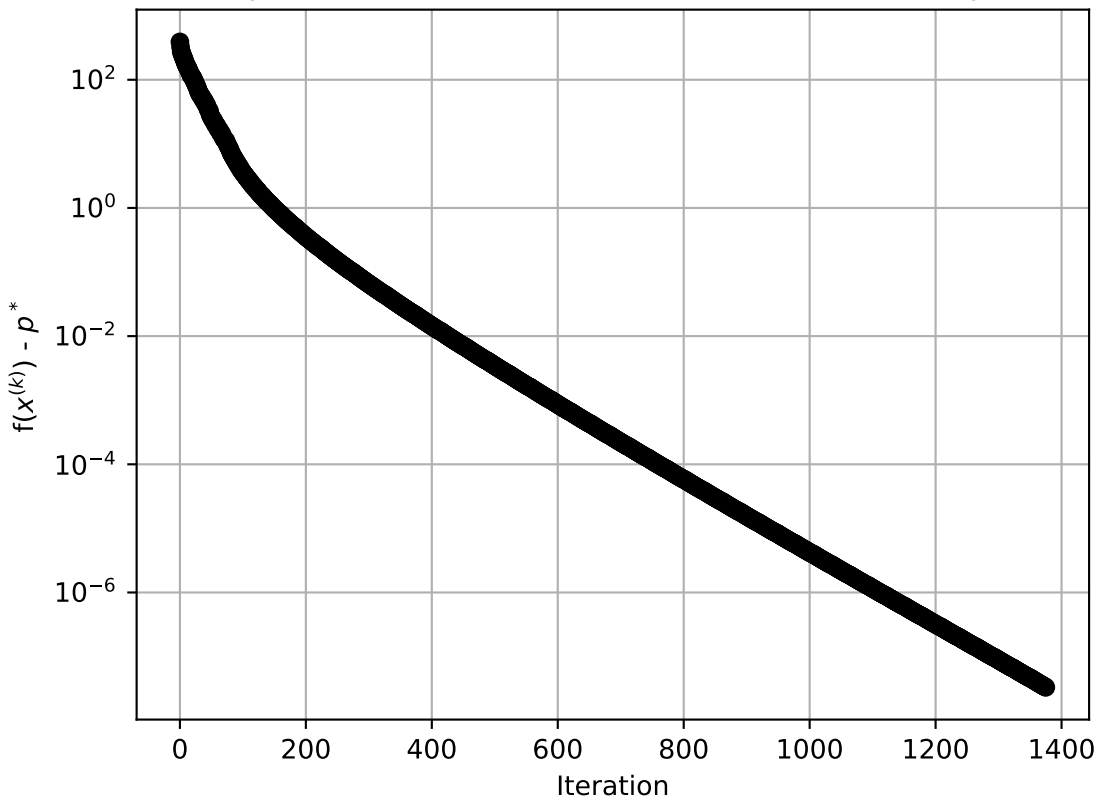
Experiment #4 Gradient Descent: Step Size



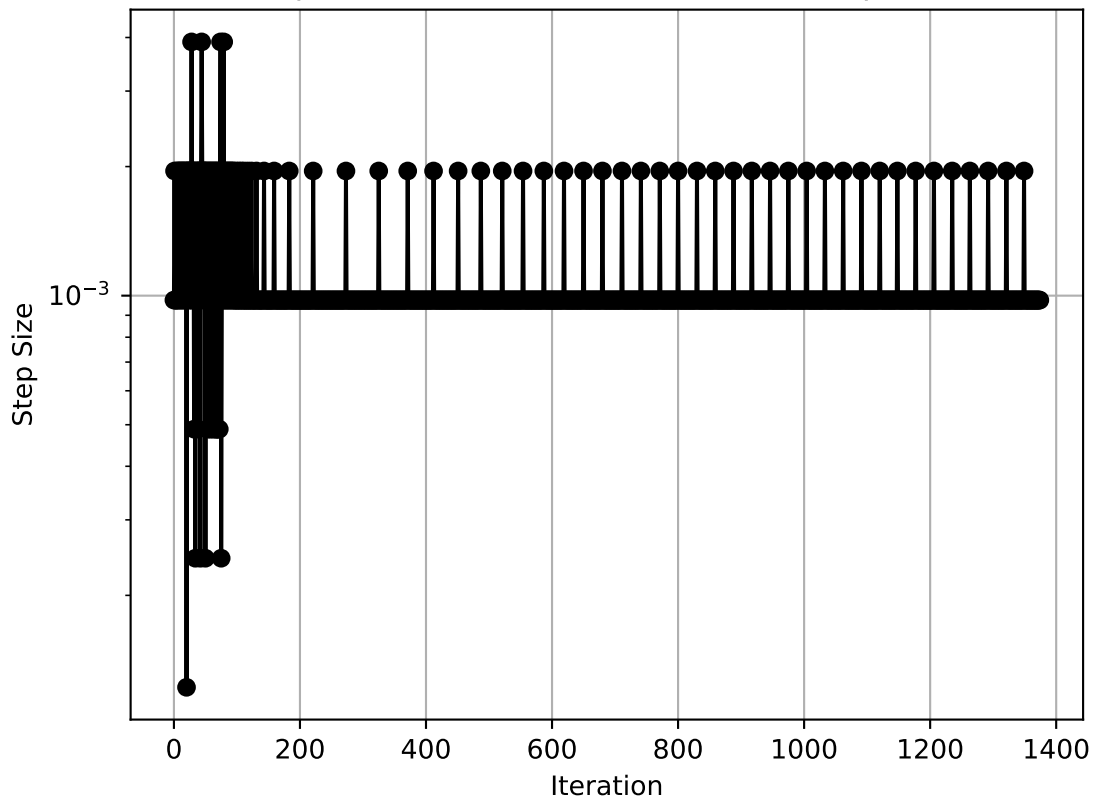
Experiment #5 Gradient Descent: $f(x^{(k)})$



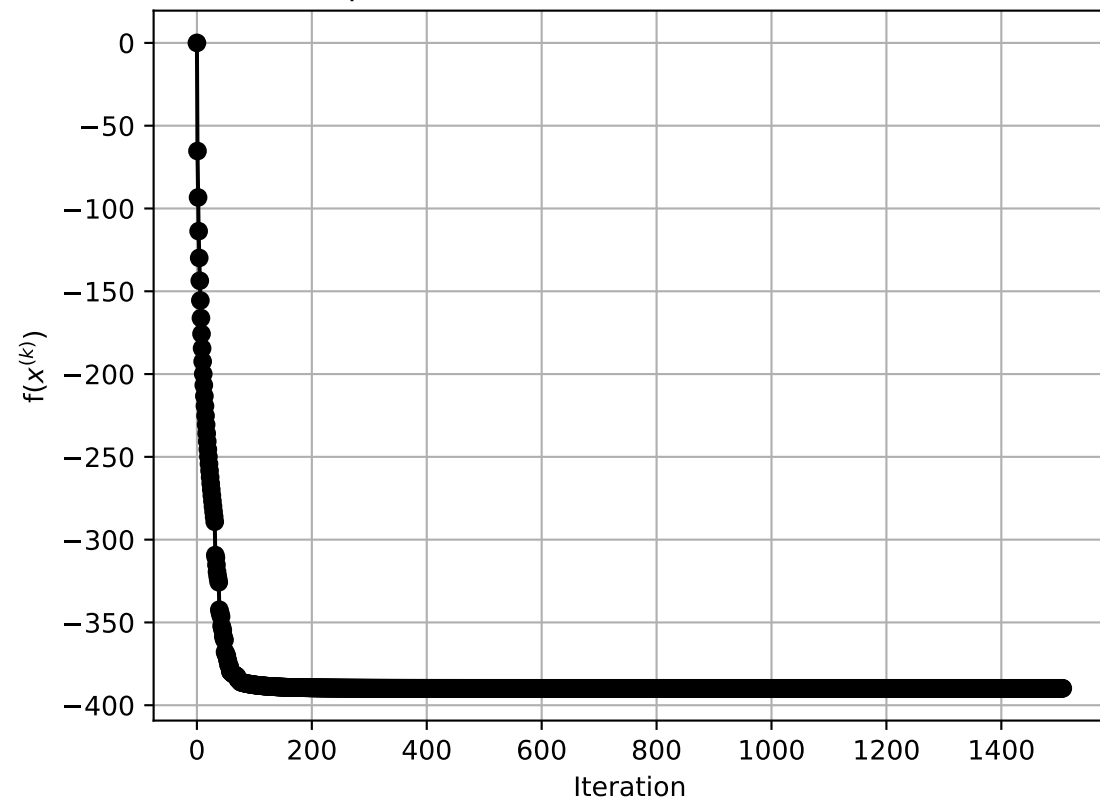
Experiment #5 Gradient Descent: Error $f(x^{(k)}) - p^*$



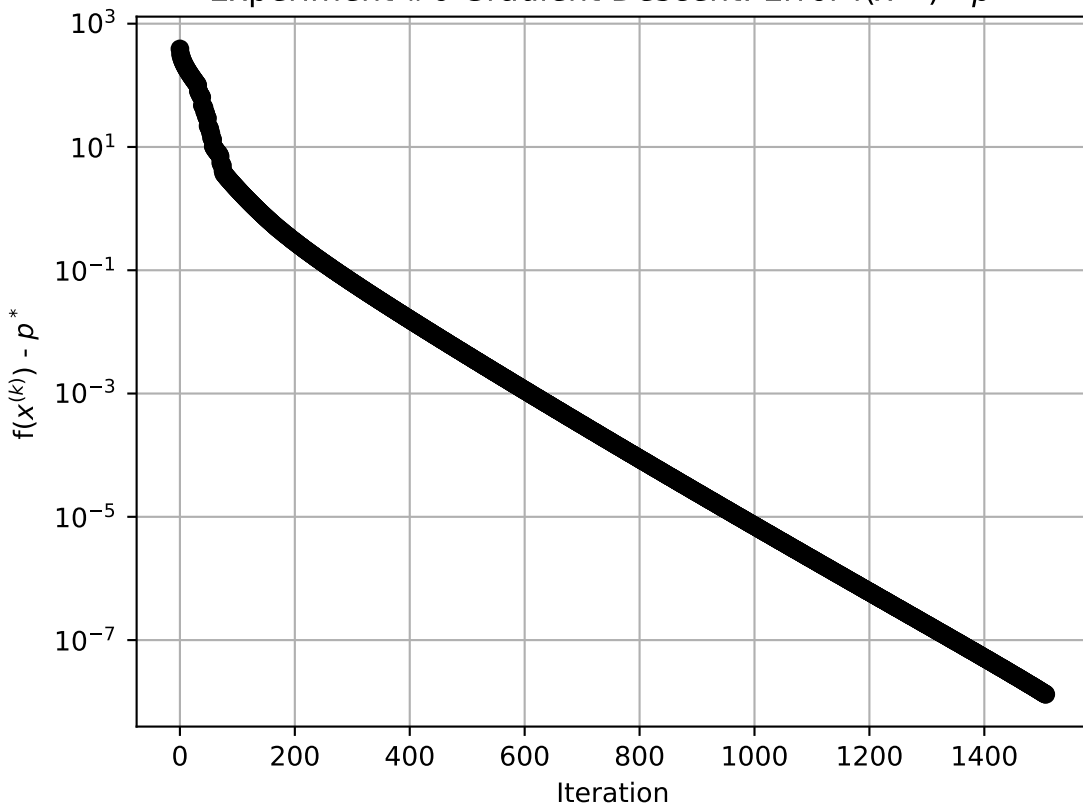
Experiment #5 Gradient Descent: Step Size



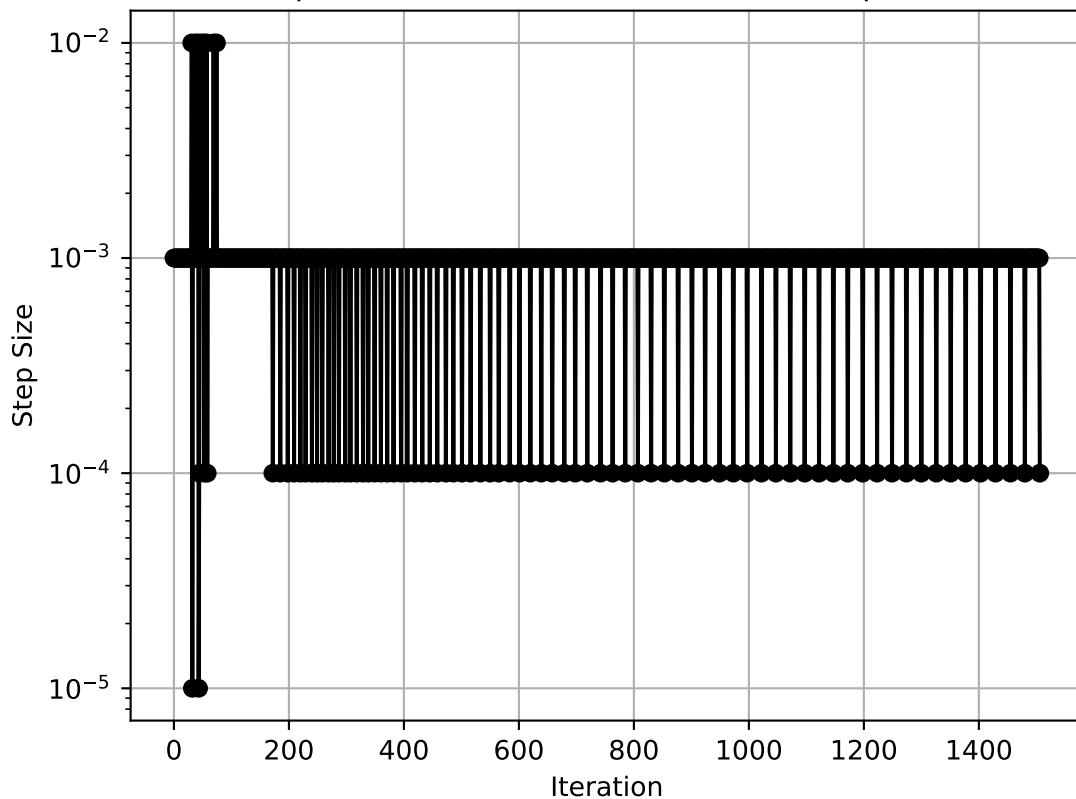
Experiment #6 Gradient Descent: $f(x^{(k)})$



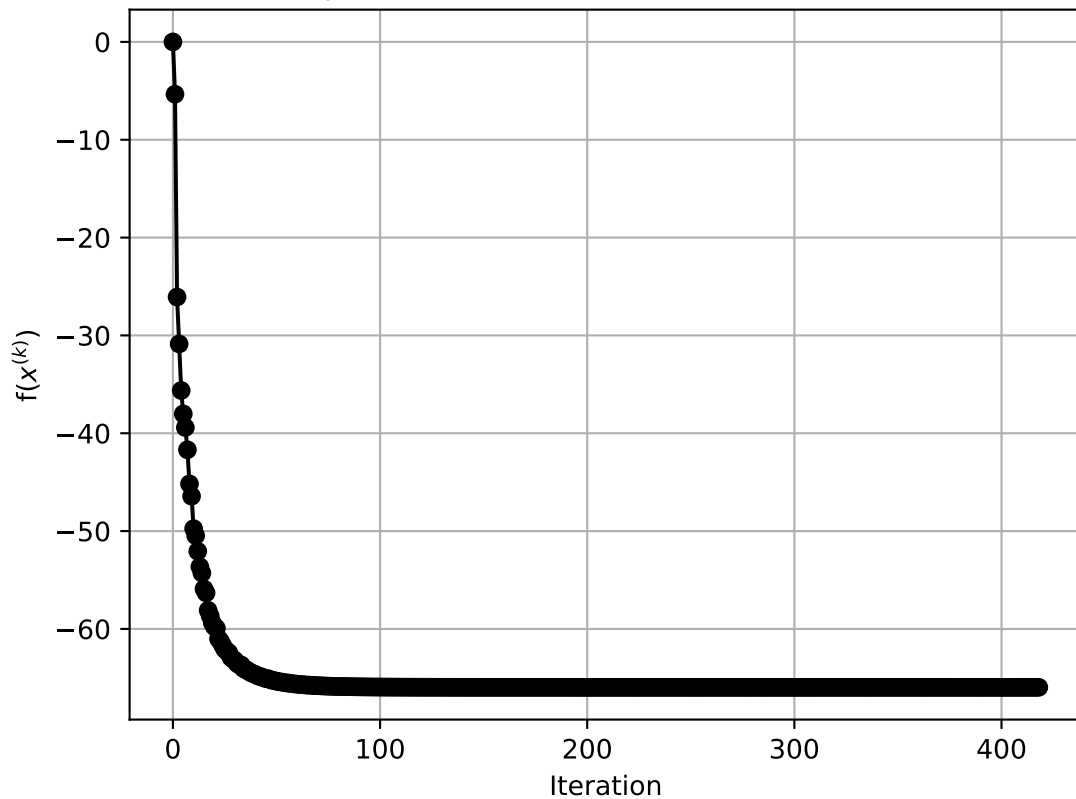
Experiment #6 Gradient Descent: Error $f(x^{(k)}) - p^*$



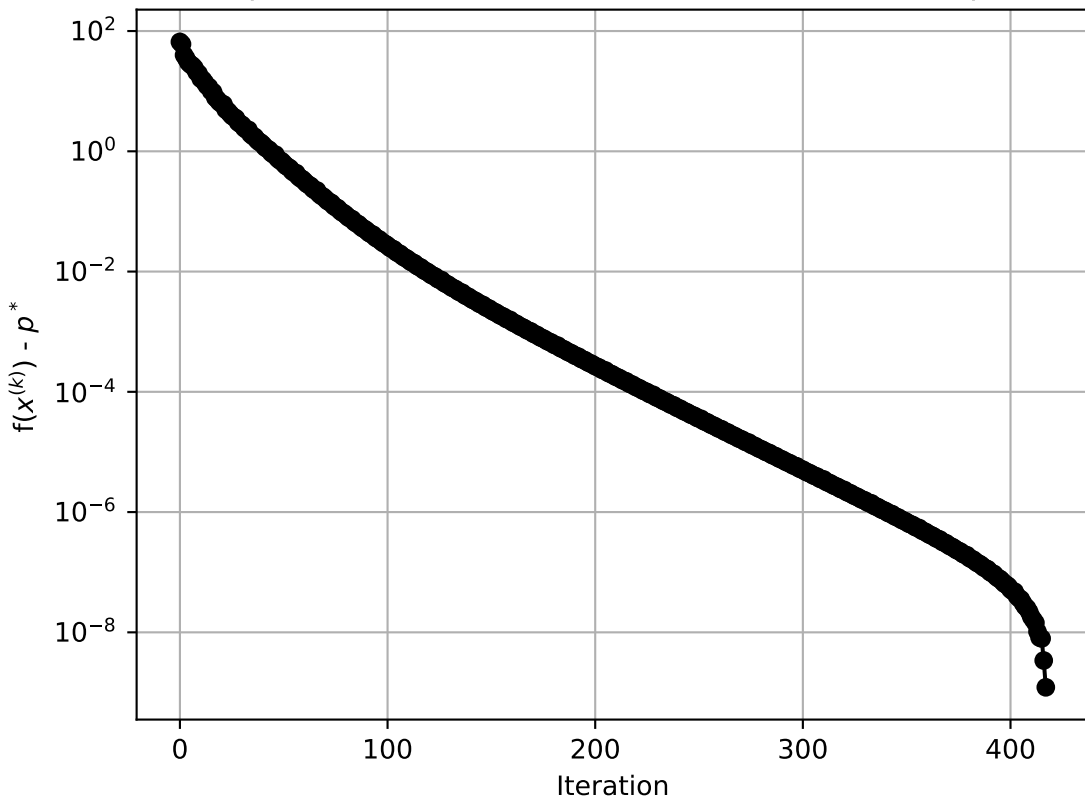
Experiment #6 Gradient Descent: Step Size



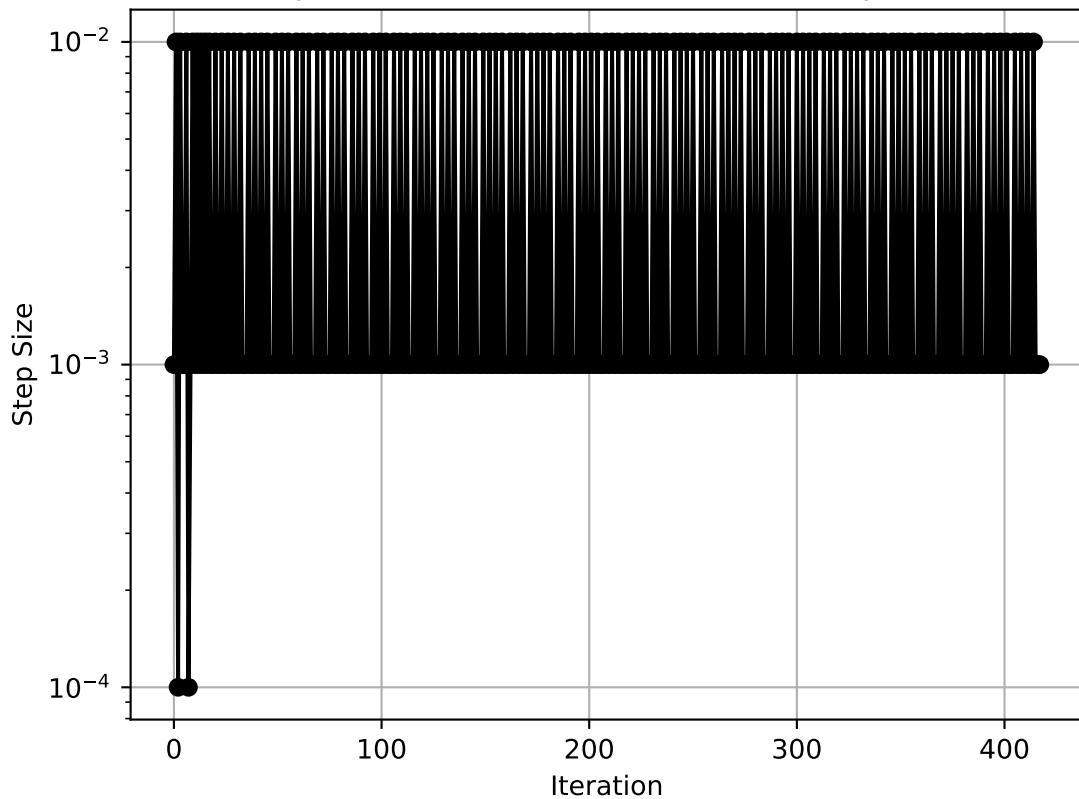
Experiment #7 Gradient Descent: $f(x^{(k)})$



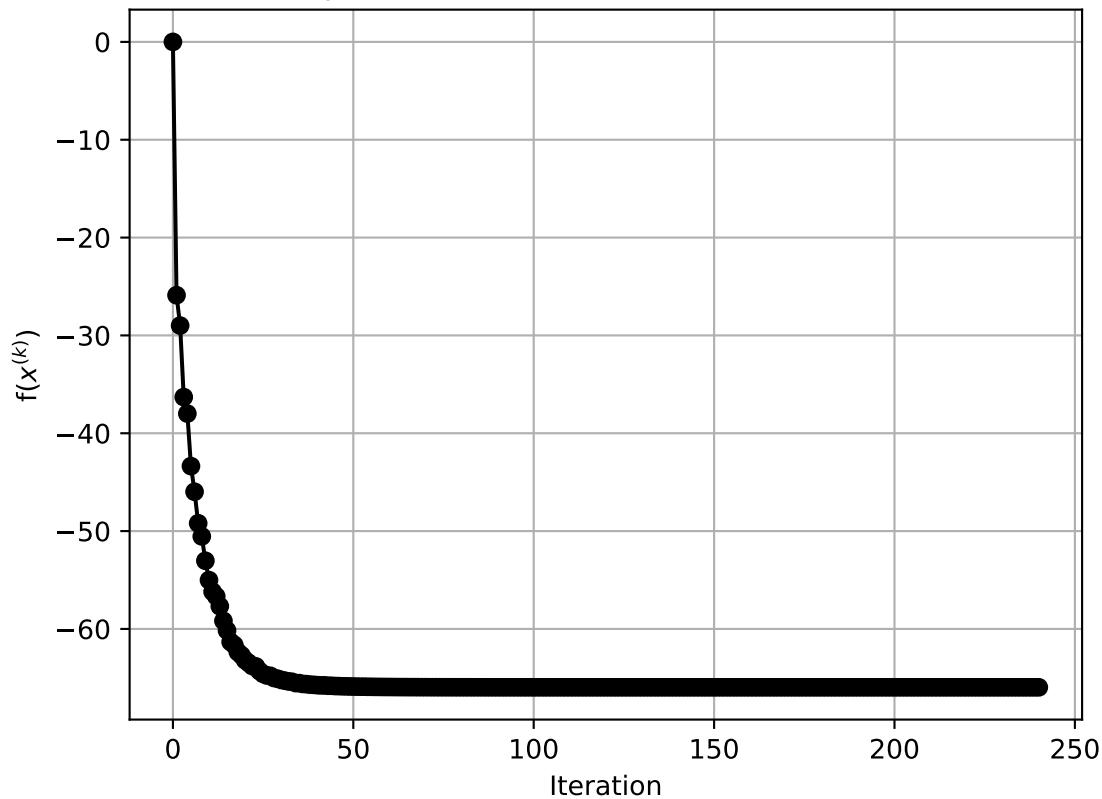
Experiment #7 Gradient Descent: Error $f(x^{(k)}) - p^*$



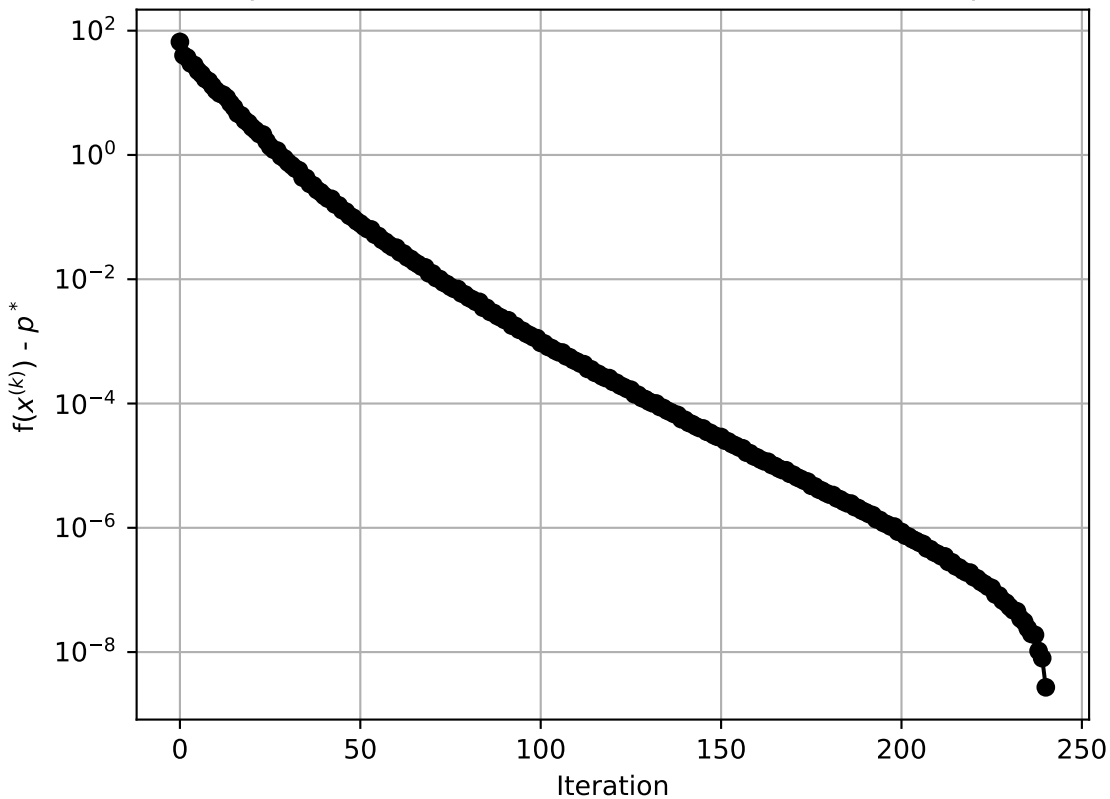
Experiment #7 Gradient Descent: Step Size



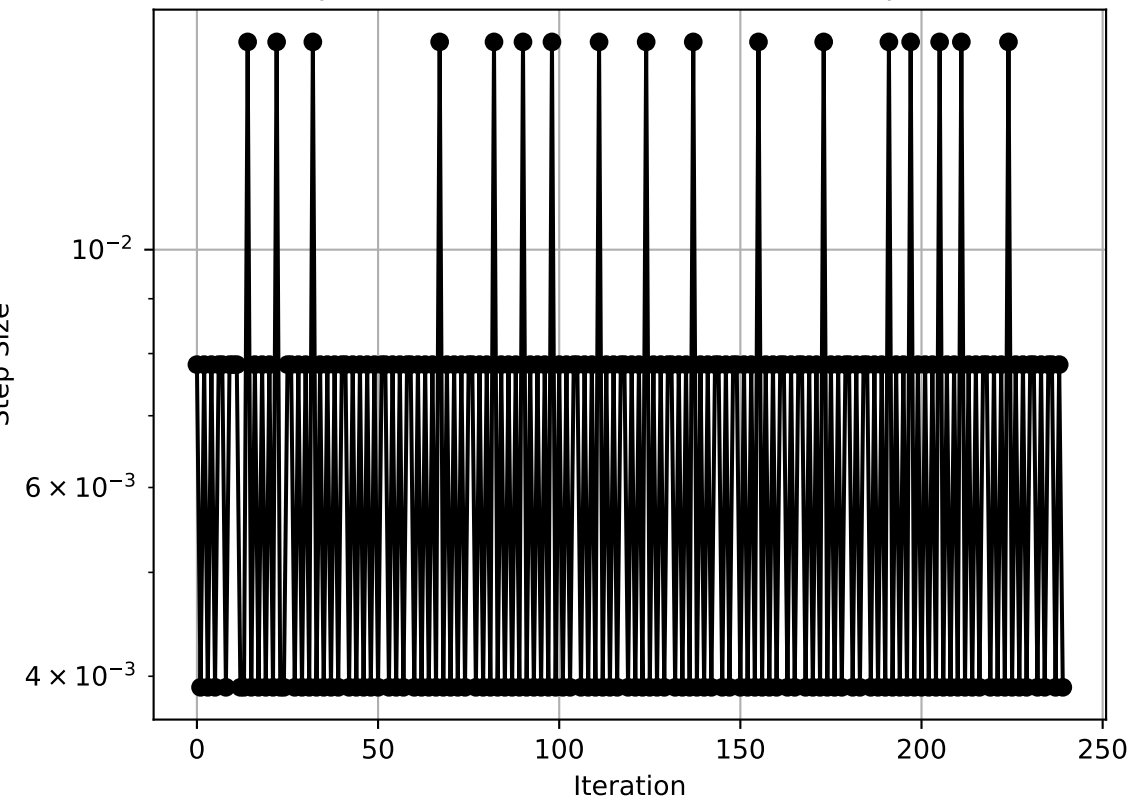
Experiment #8 Gradient Descent: $f(x^{(k)})$



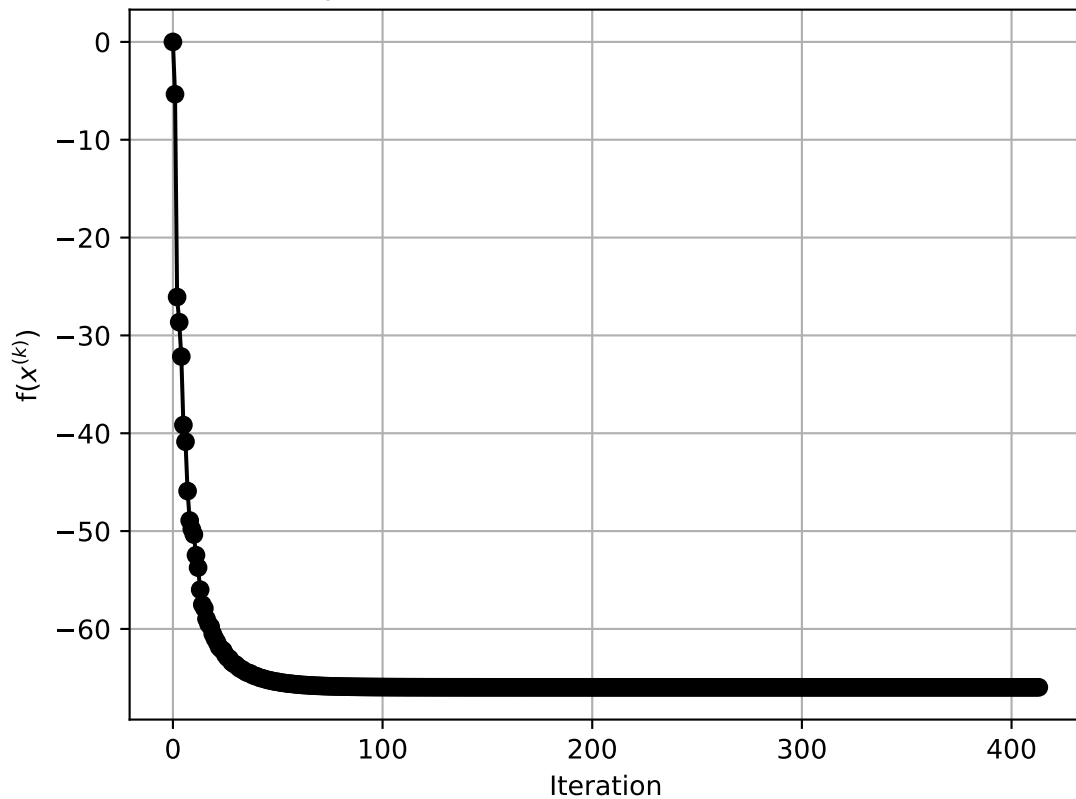
Experiment #8 Gradient Descent: Error $f(x^{(k)}) - p^*$



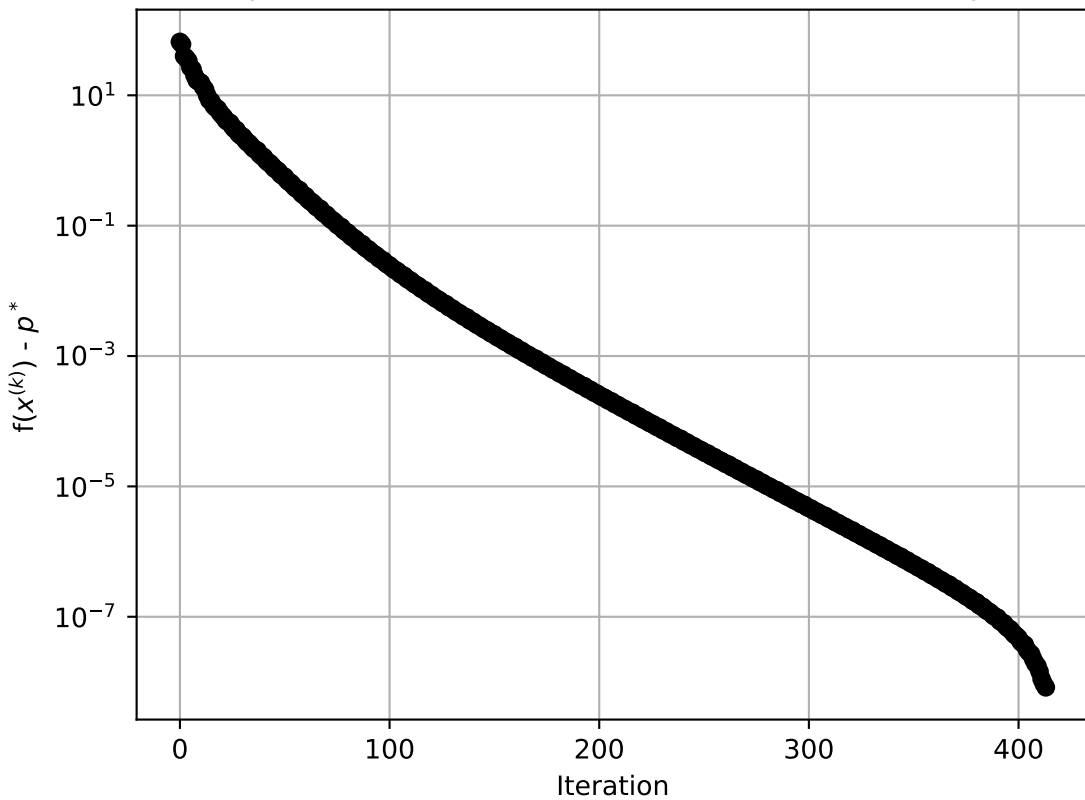
Experiment #8 Gradient Descent: Step Size



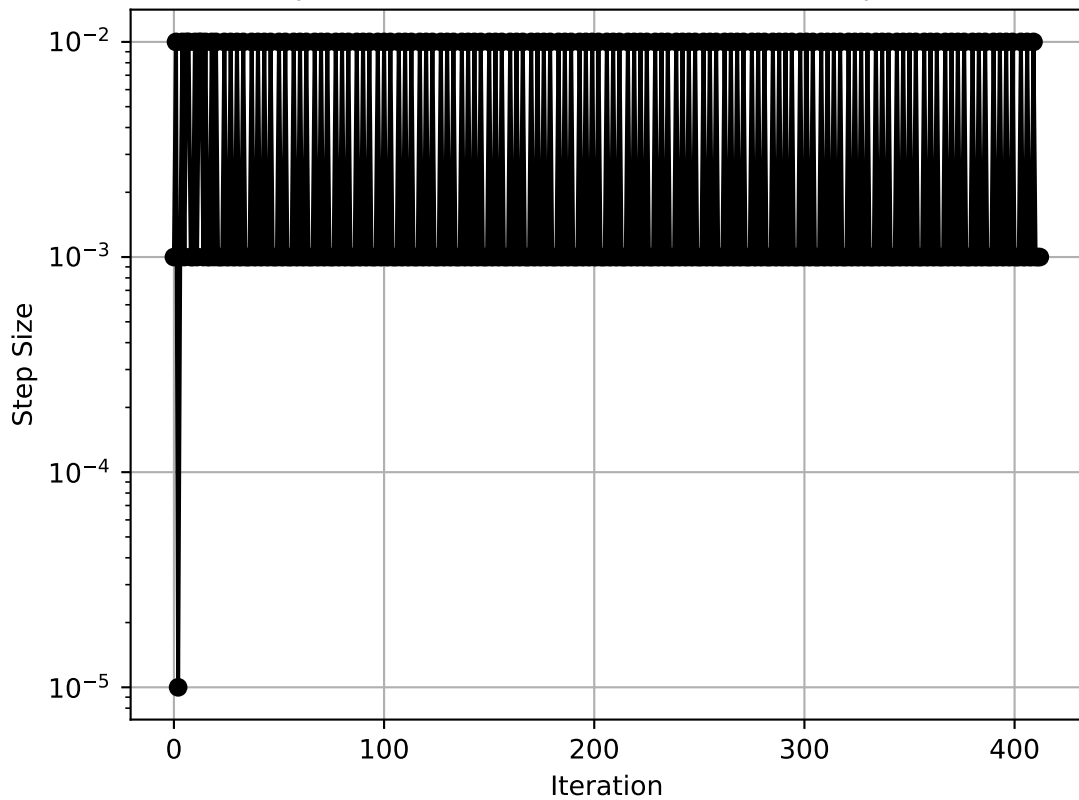
Experiment #9 Gradient Descent: $f(x^{(k)})$



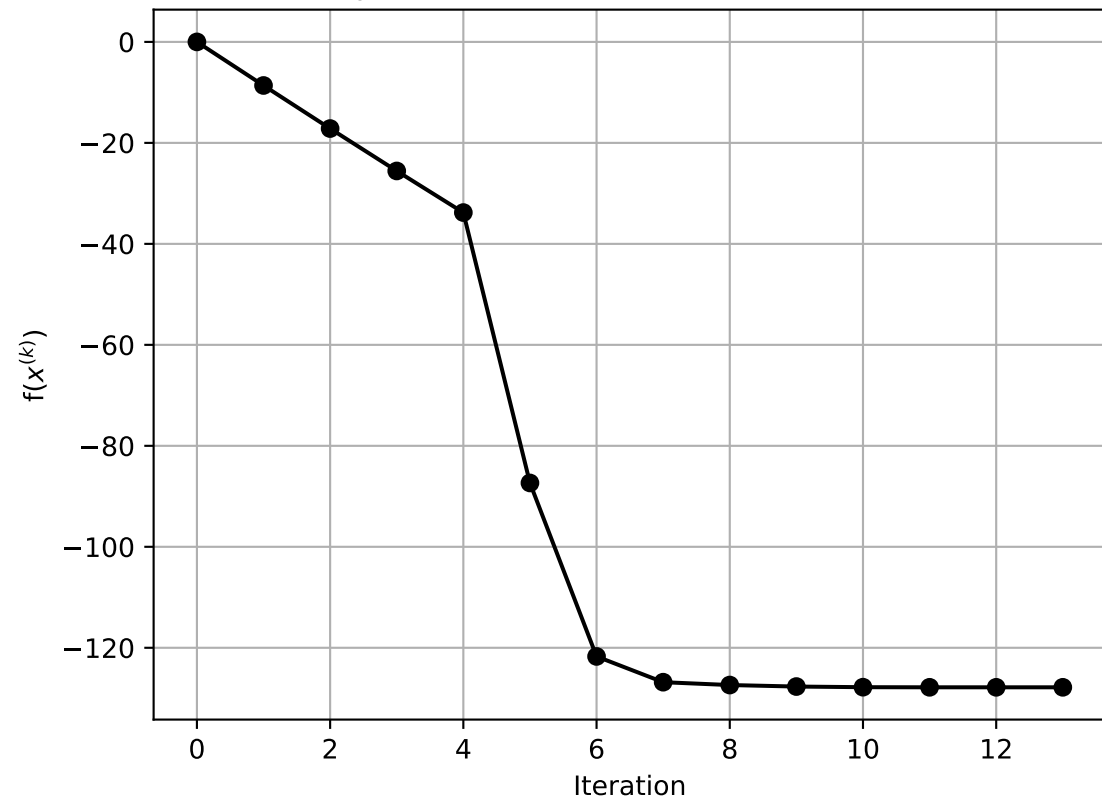
Experiment #9 Gradient Descent: Error $f(x^{(k)}) - p^*$



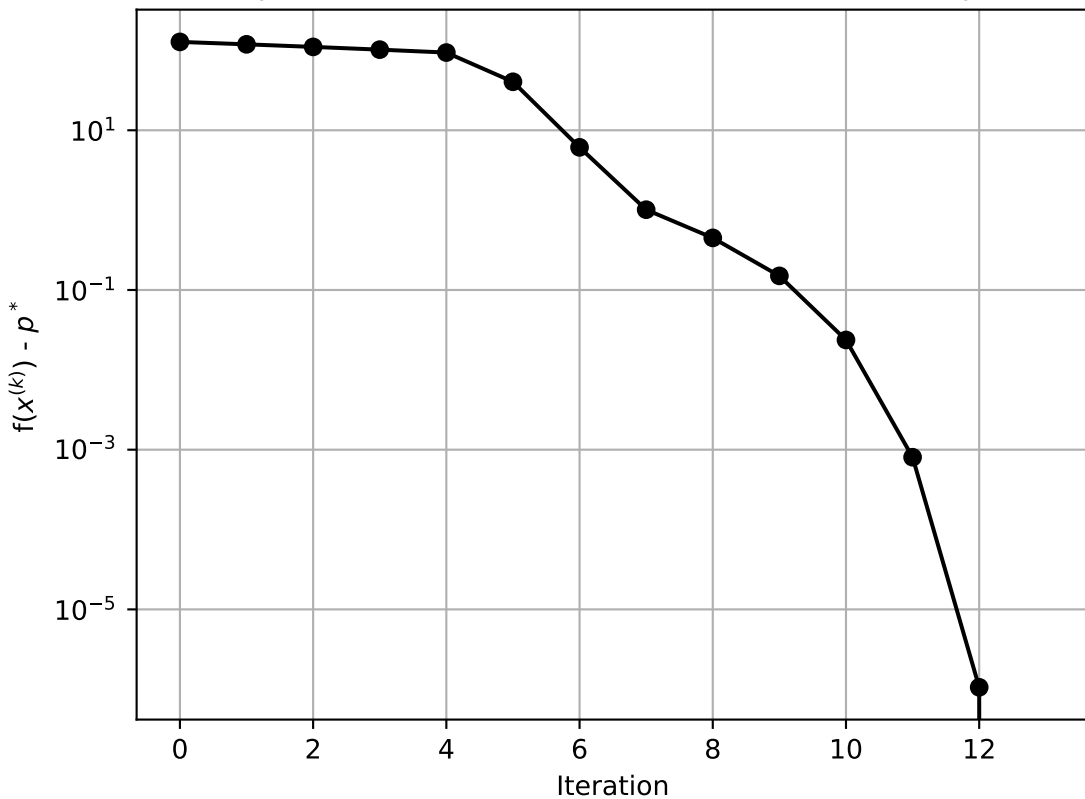
Experiment #9 Gradient Descent: Step Size



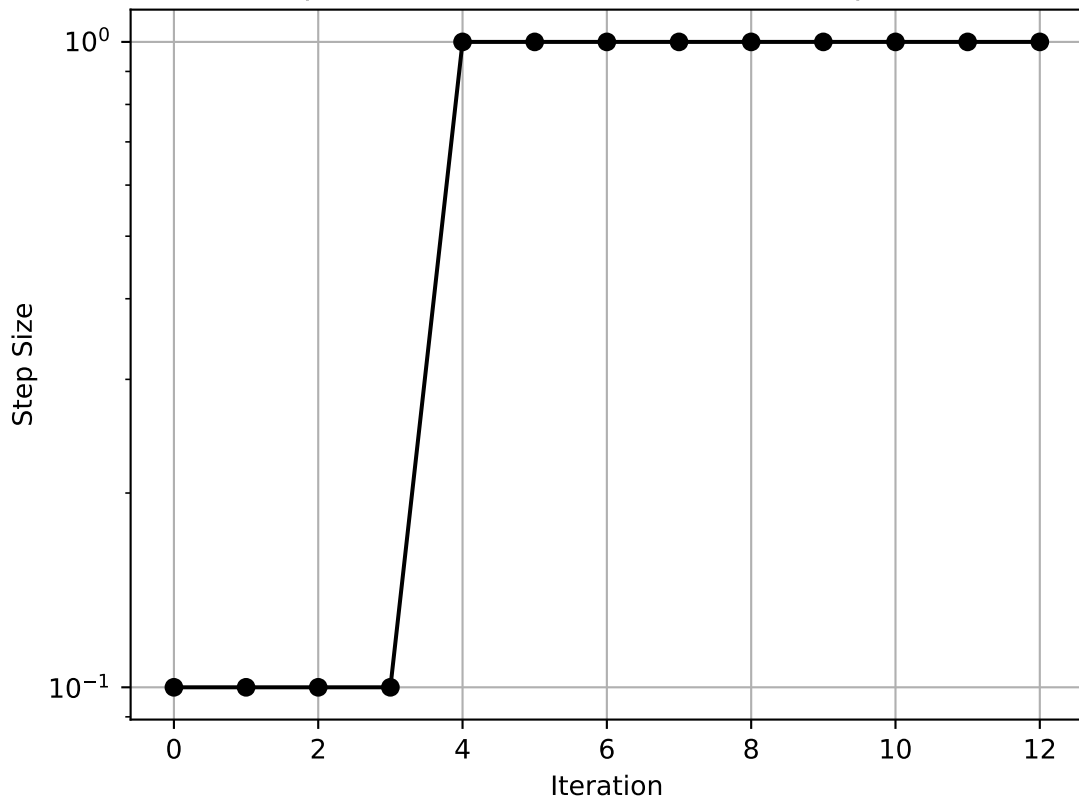
Experiment #1 Newton Descent: $f(x^{(k)})$



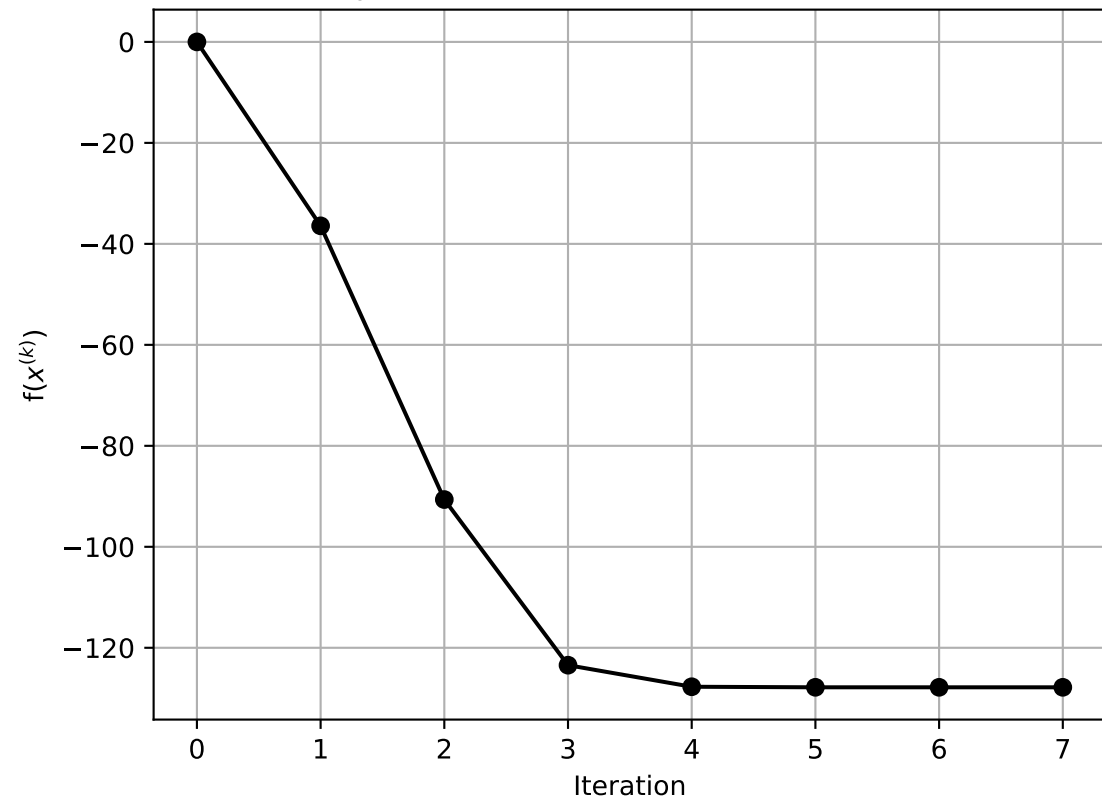
Experiment #1 Newton Descent: Error $f(x^{(k)}) - p^*$



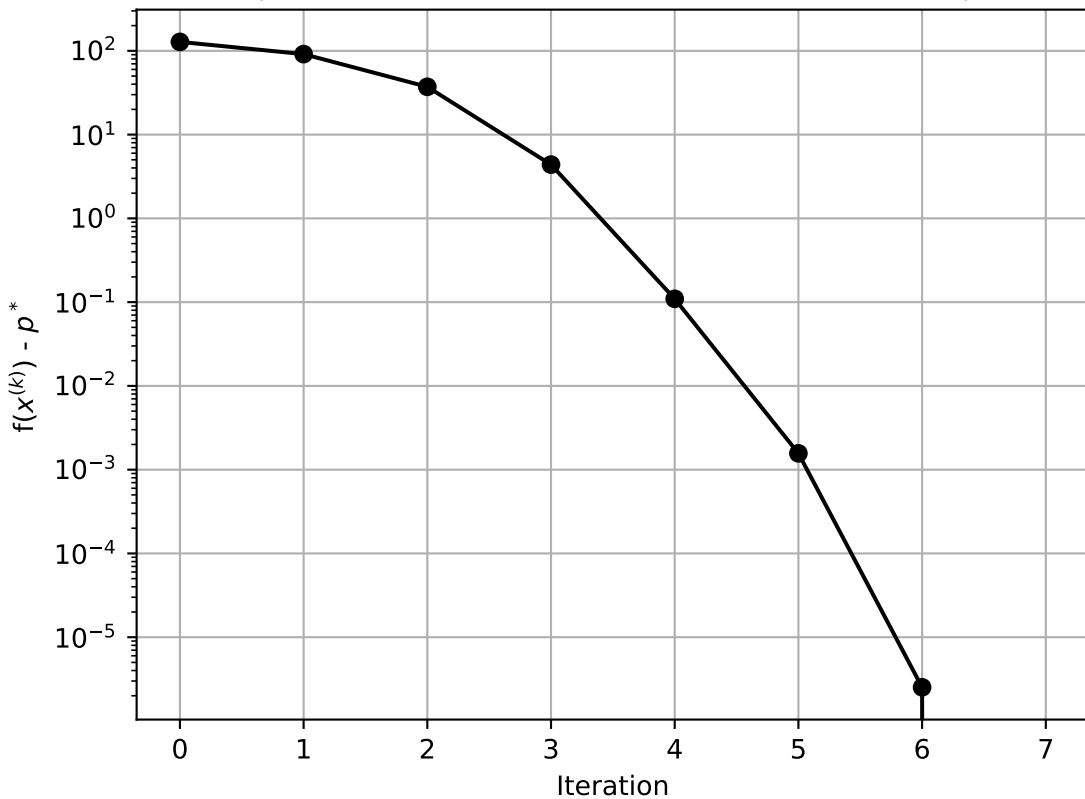
Experiment #1 Newton Descent: Step Size



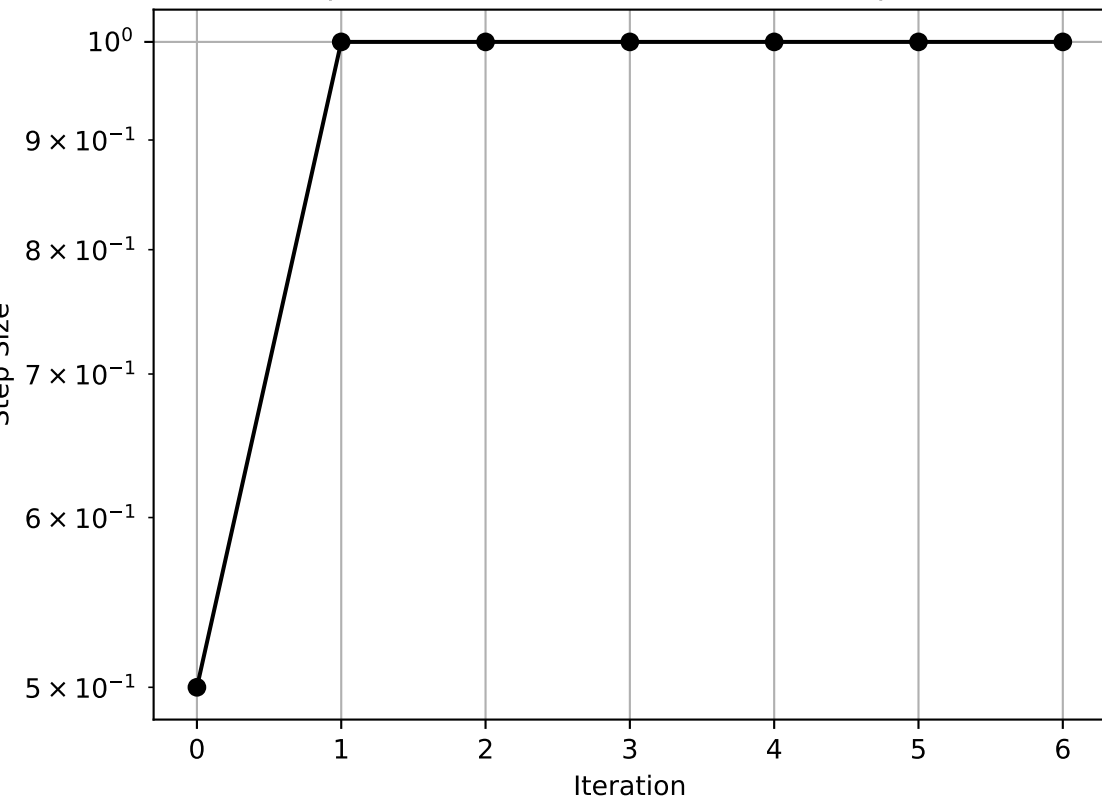
Experiment #2 Newton Descent: $f(x^{(k)})$



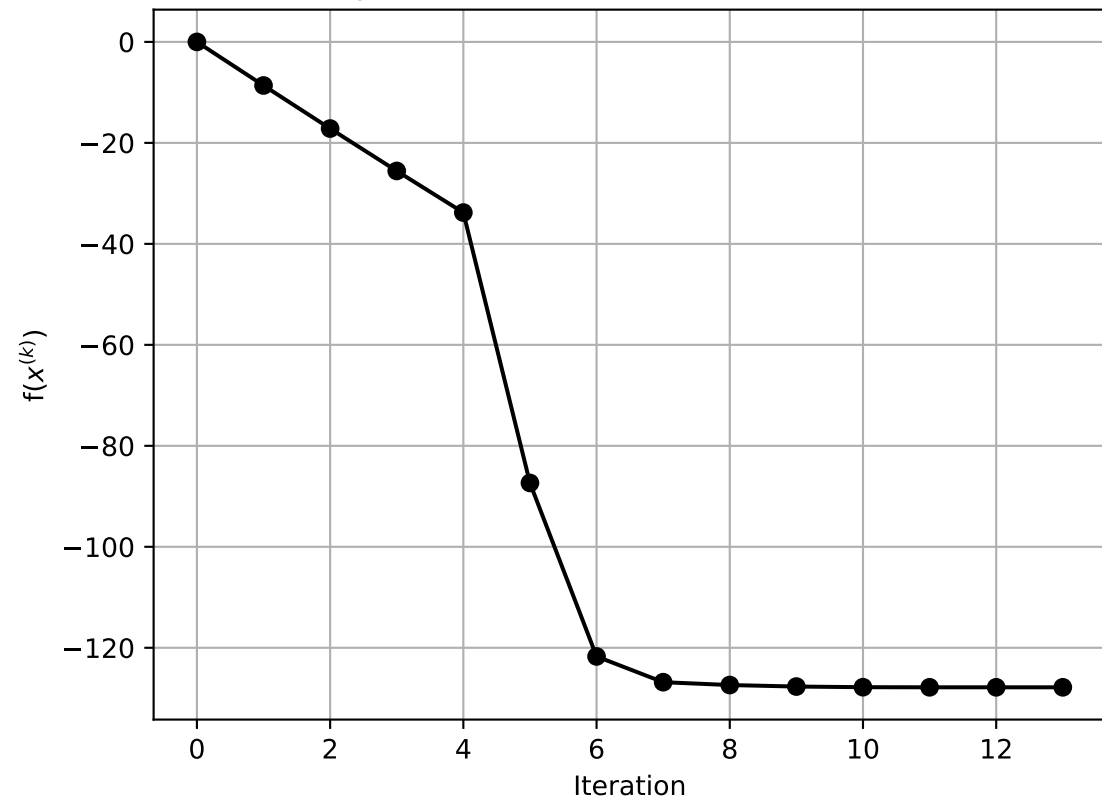
Experiment #2 Newton Descent: Error $f(x^{(k)}) - p^*$



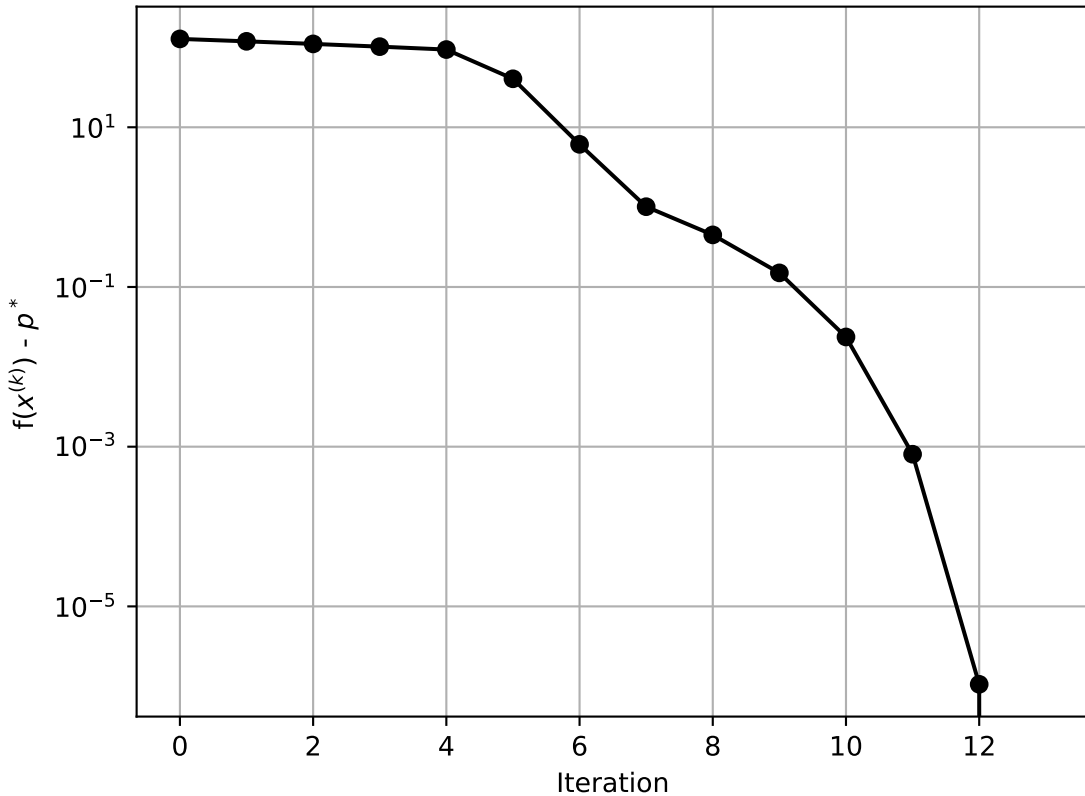
Experiment #2 Newton Descent: Step Size



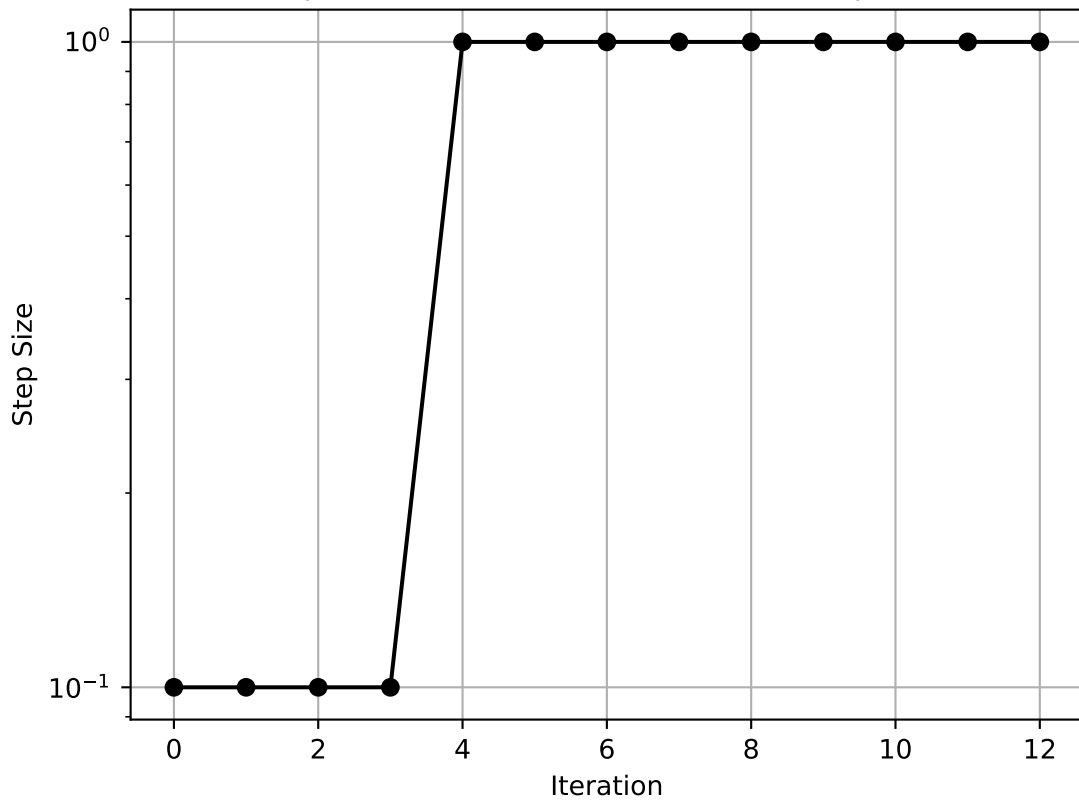
Experiment #3 Newton Descent: $f(x^{(k)})$



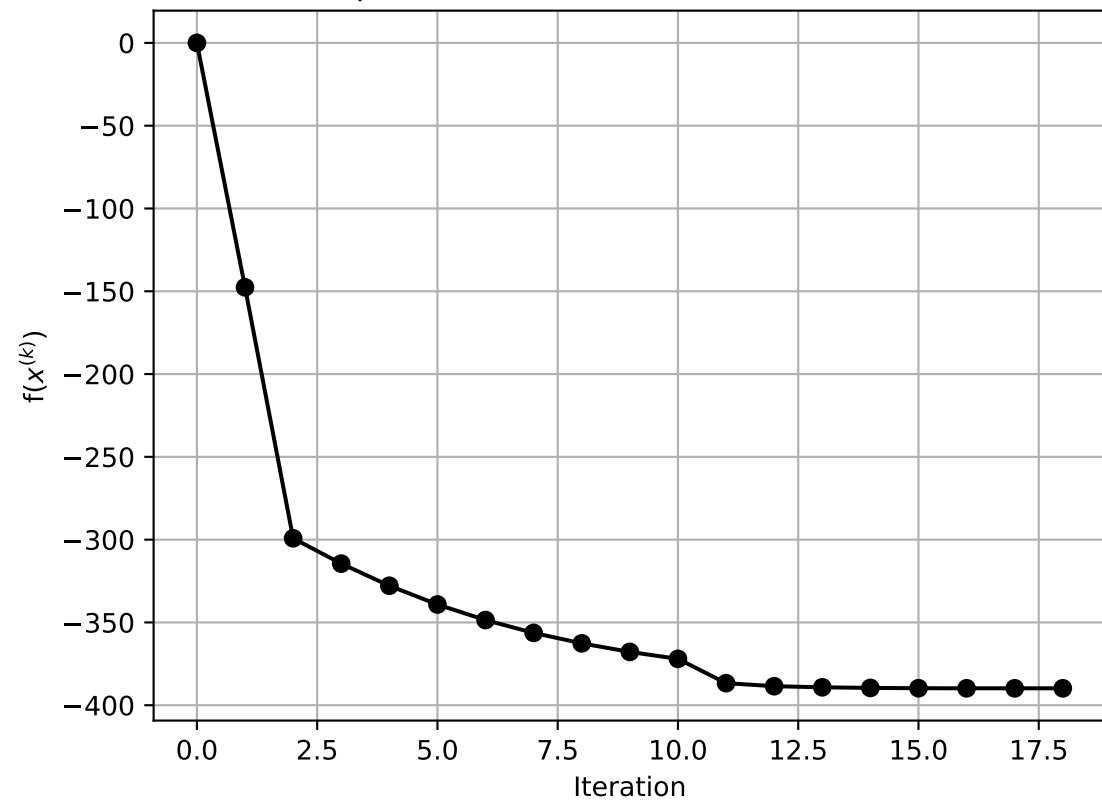
Experiment #3 Newton Descent: Error $f(x^{(k)}) - p^*$



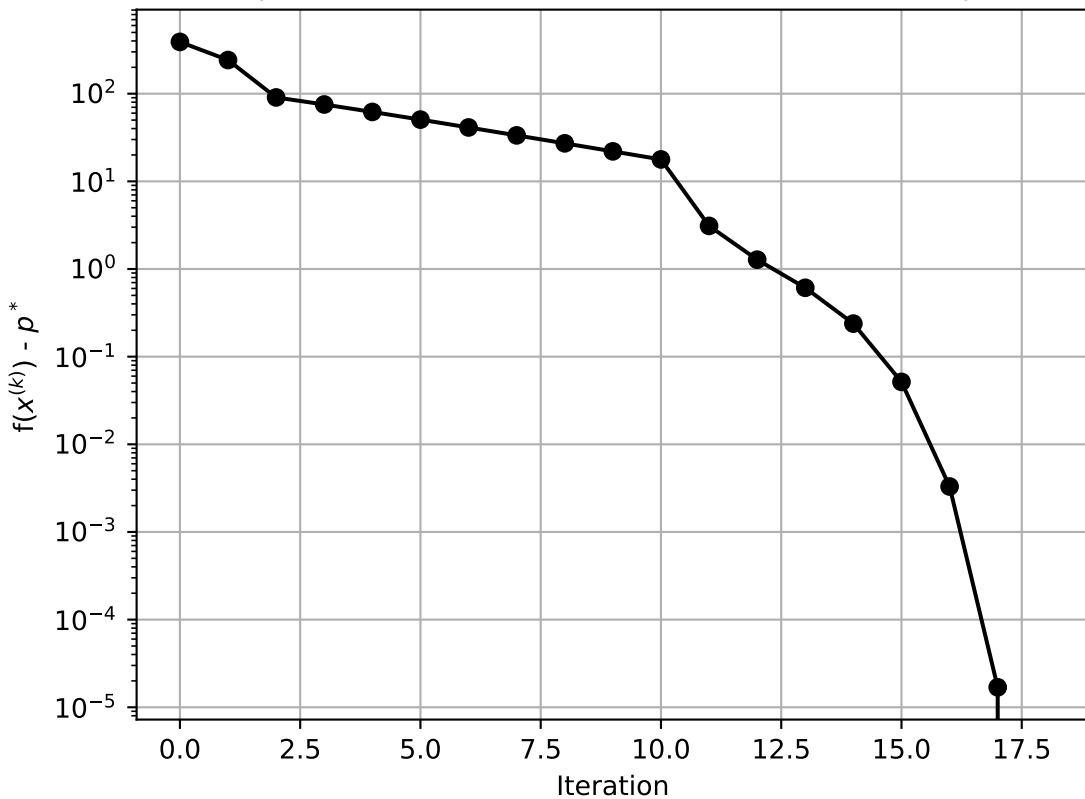
Experiment #3 Newton Descent: Step Size



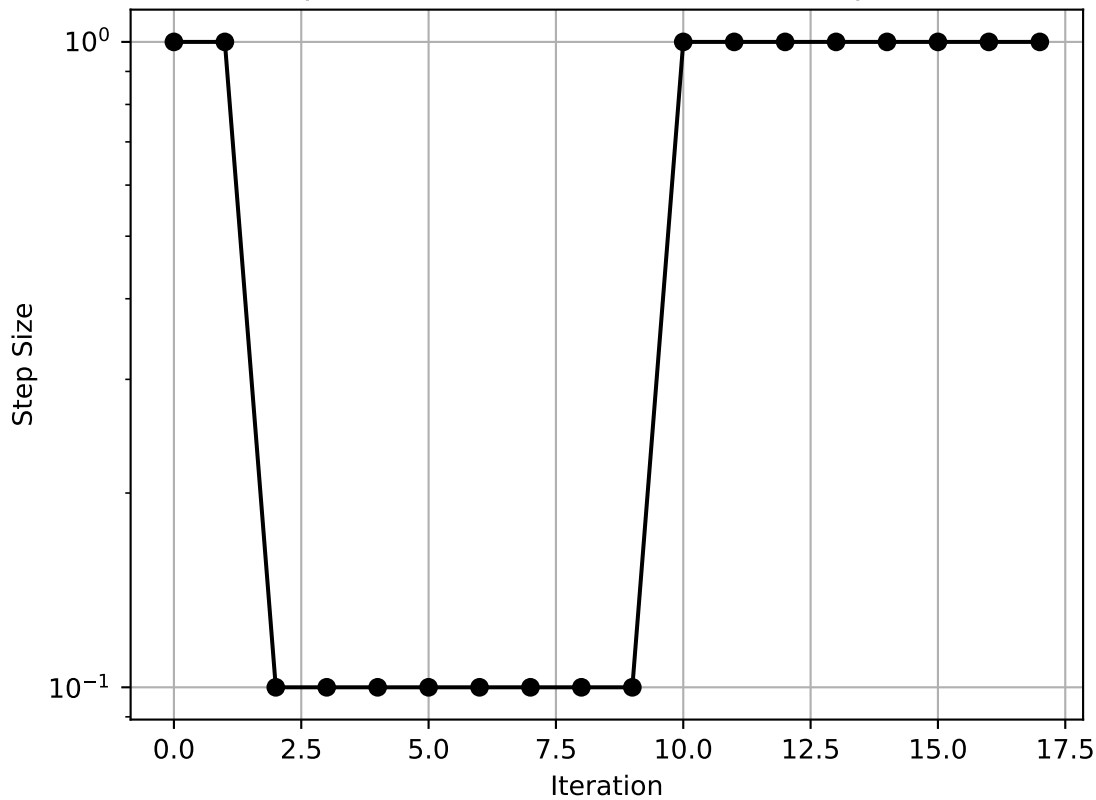
Experiment #4 Newton Descent: $f(x^{(k)})$



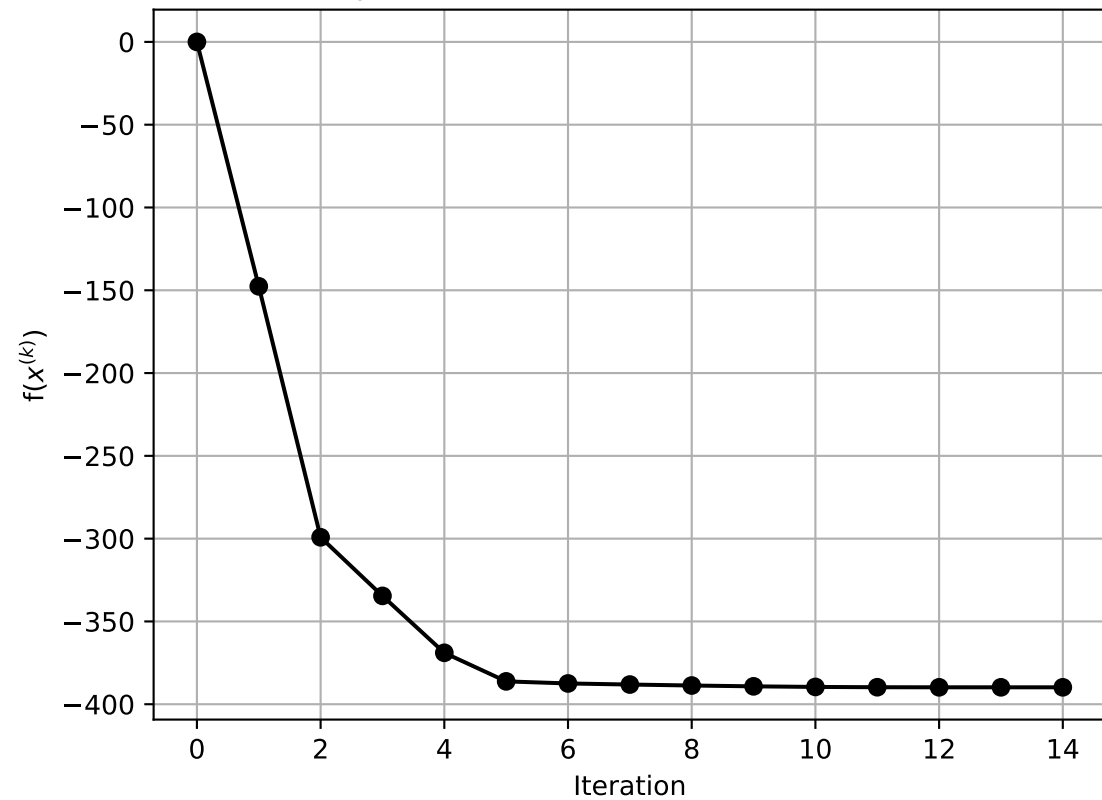
Experiment #4 Newton Descent: Error $f(x^{(k)}) - p^*$



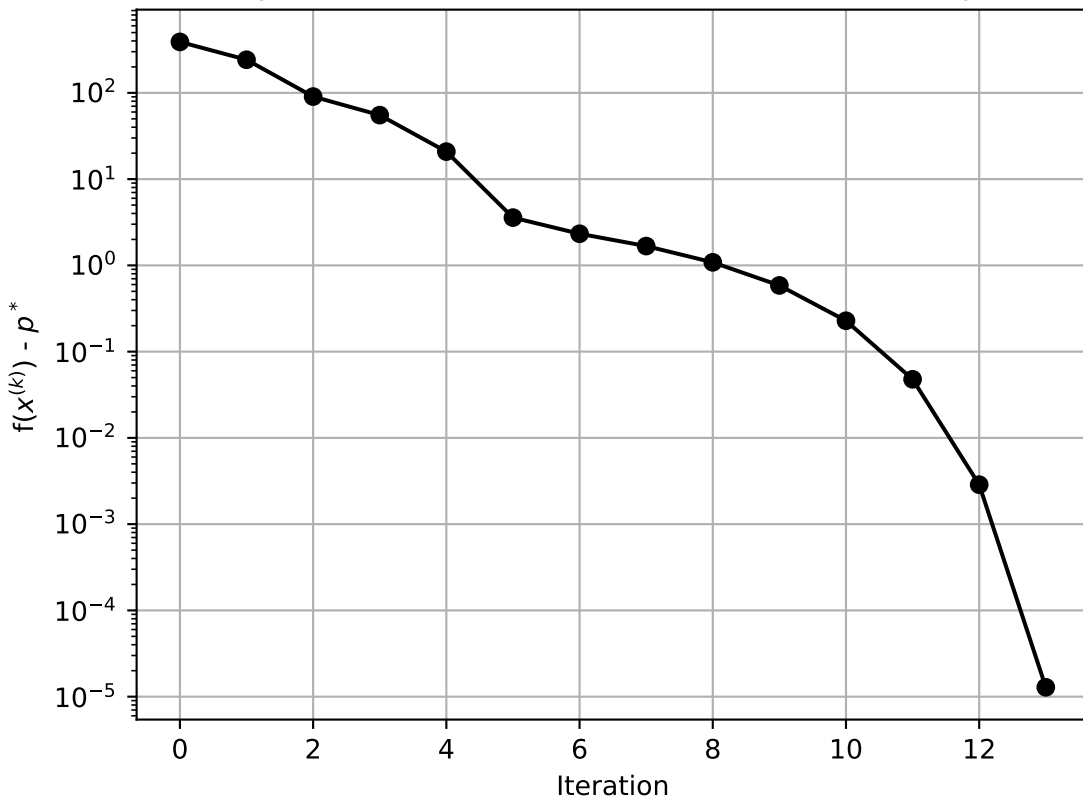
Experiment #4 Newton Descent: Step Size



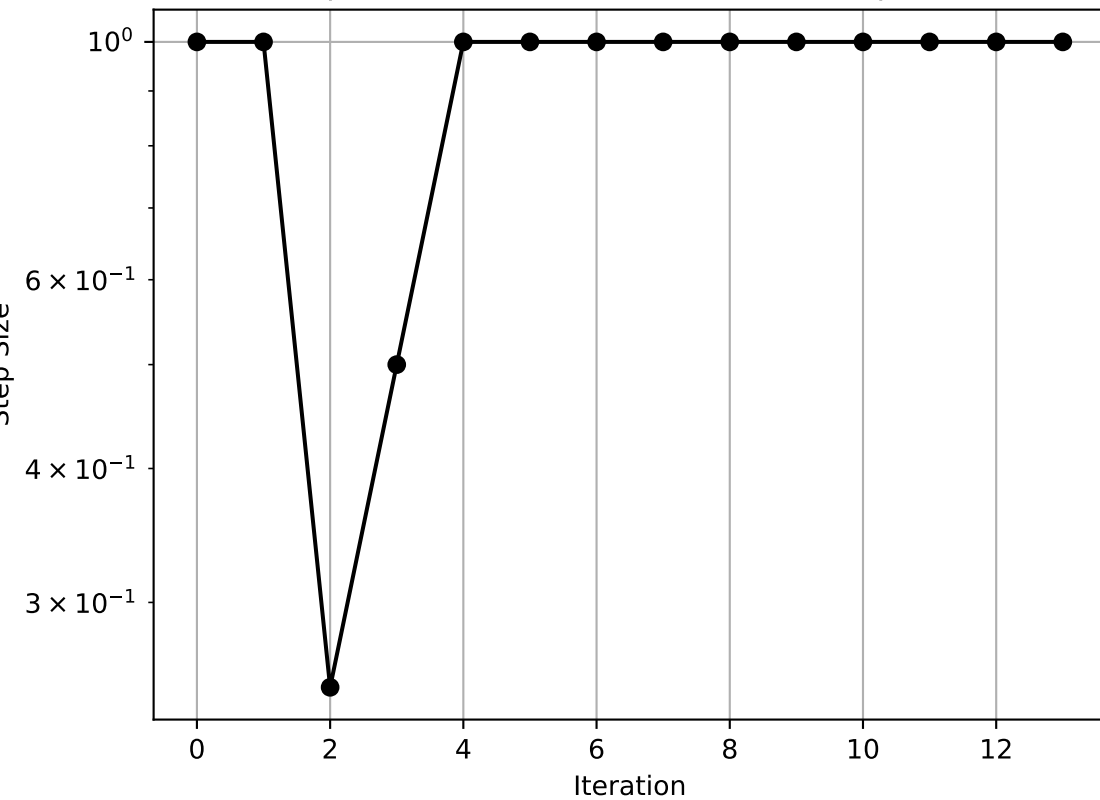
Experiment #5 Newton Descent: $f(x^{(k)})$



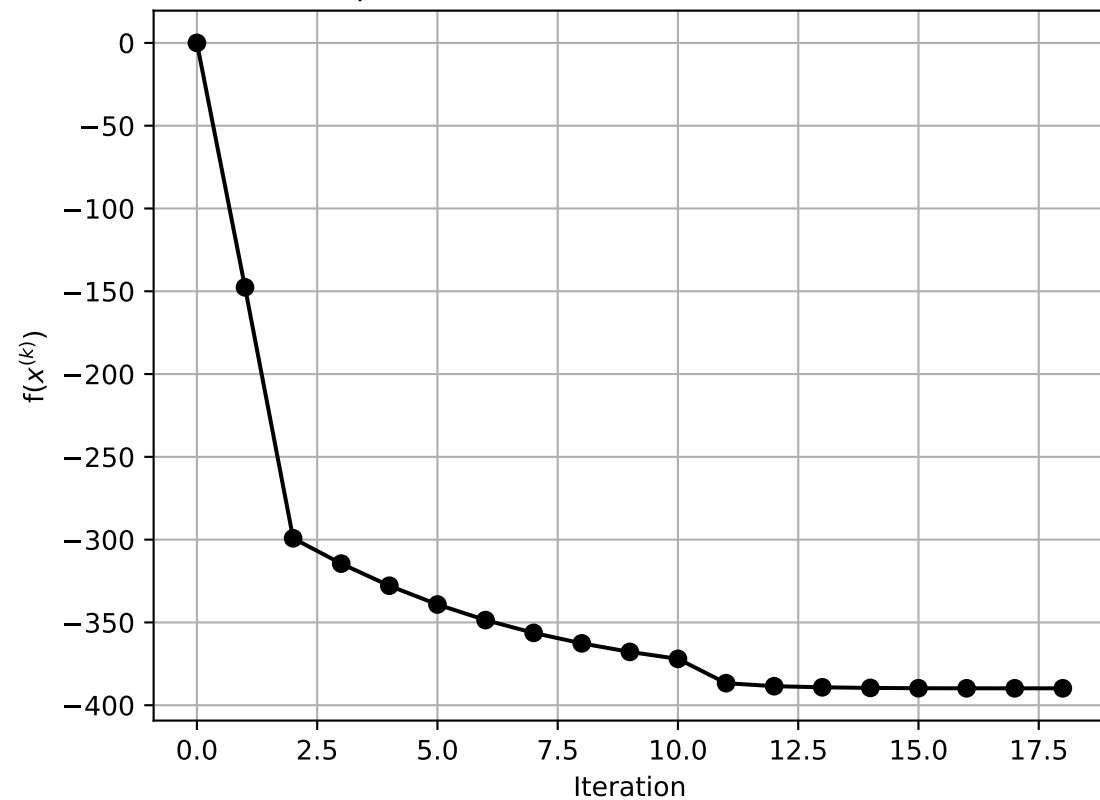
Experiment #5 Newton Descent: Error $f(x^{(k)}) - p^*$



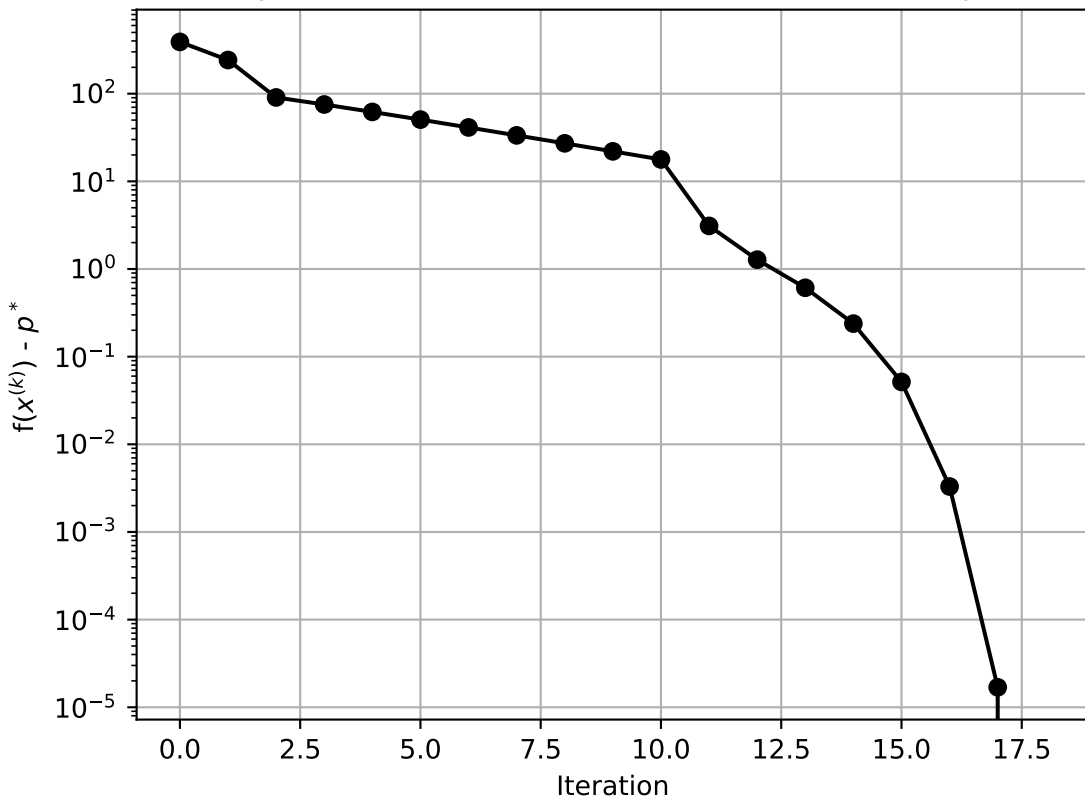
Experiment #5 Newton Descent: Step Size



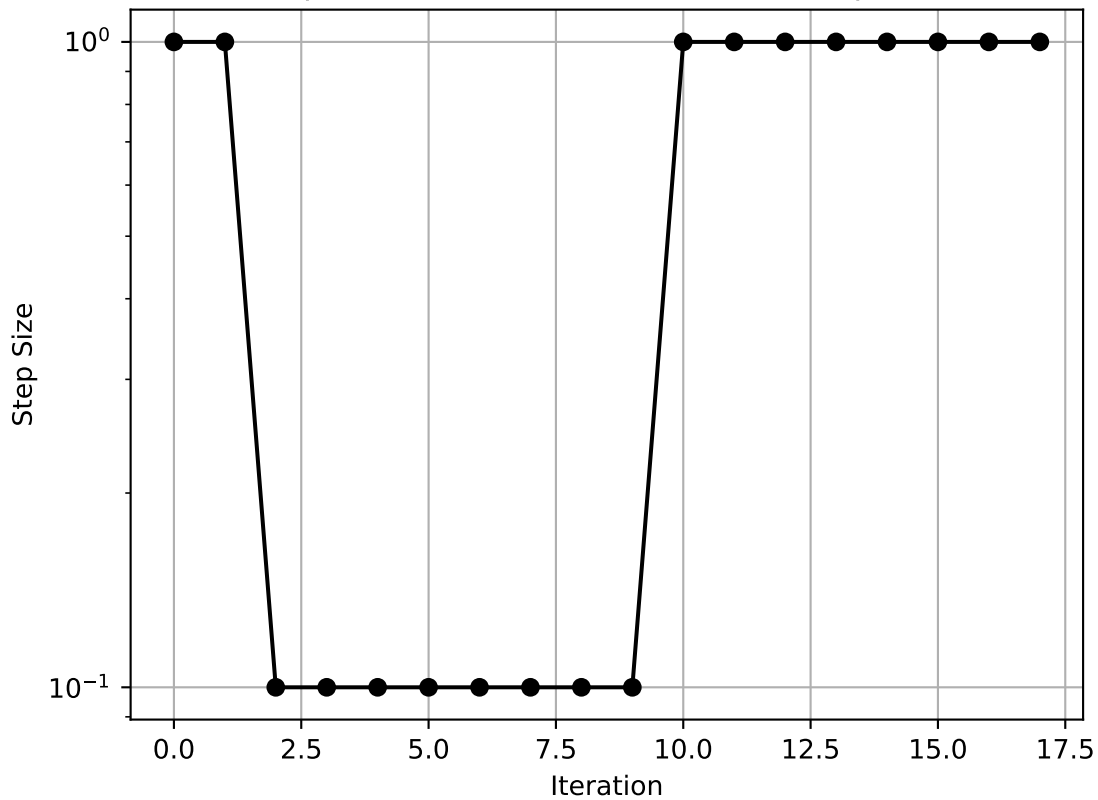
Experiment #6 Newton Descent: $f(x^{(k)})$



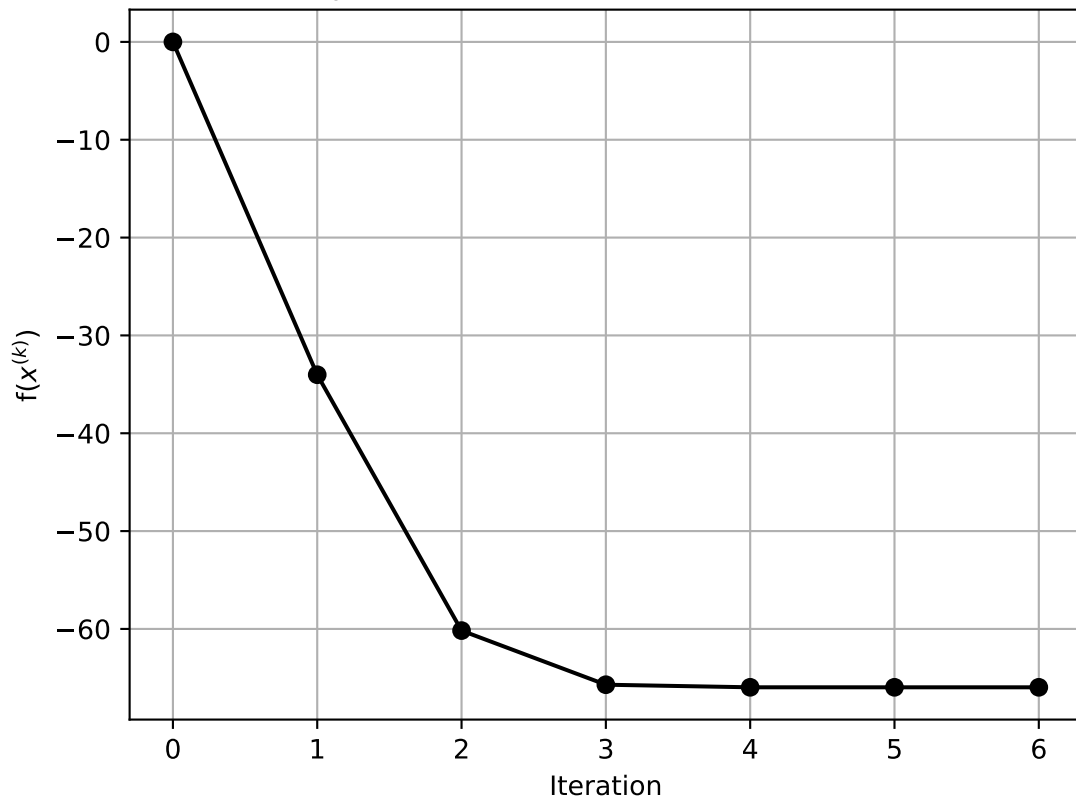
Experiment #6 Newton Descent: Error $f(x^{(k)}) - p^*$



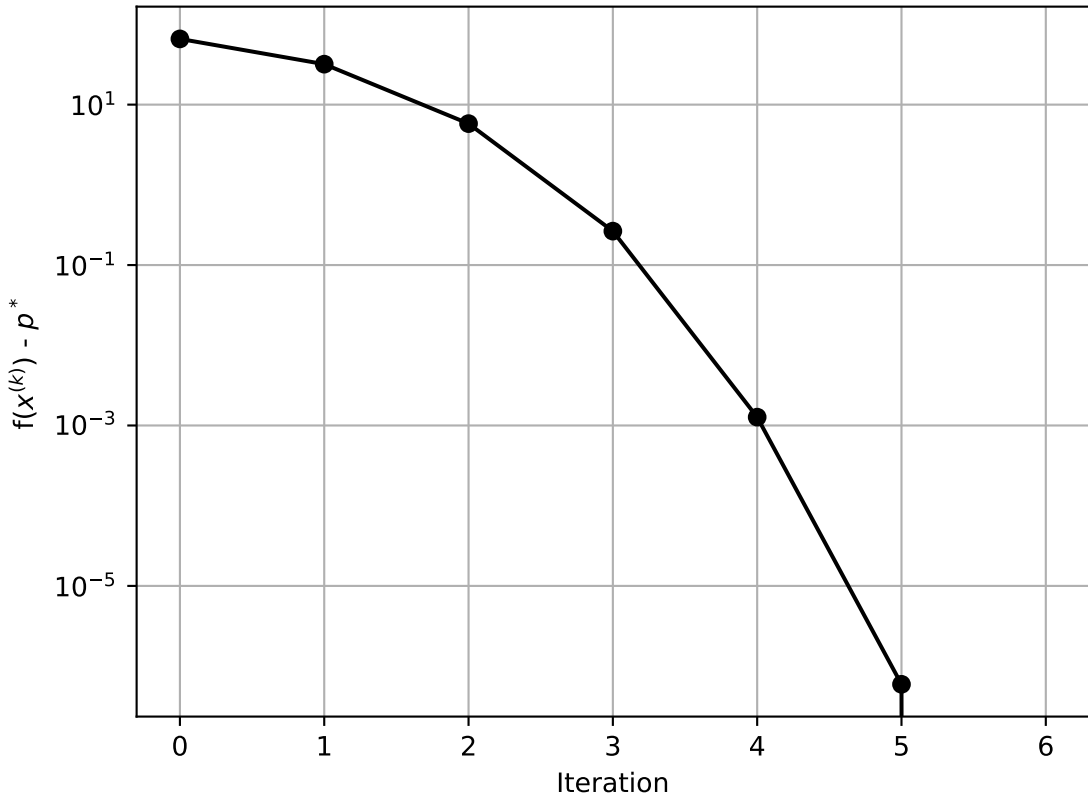
Experiment #6 Newton Descent: Step Size



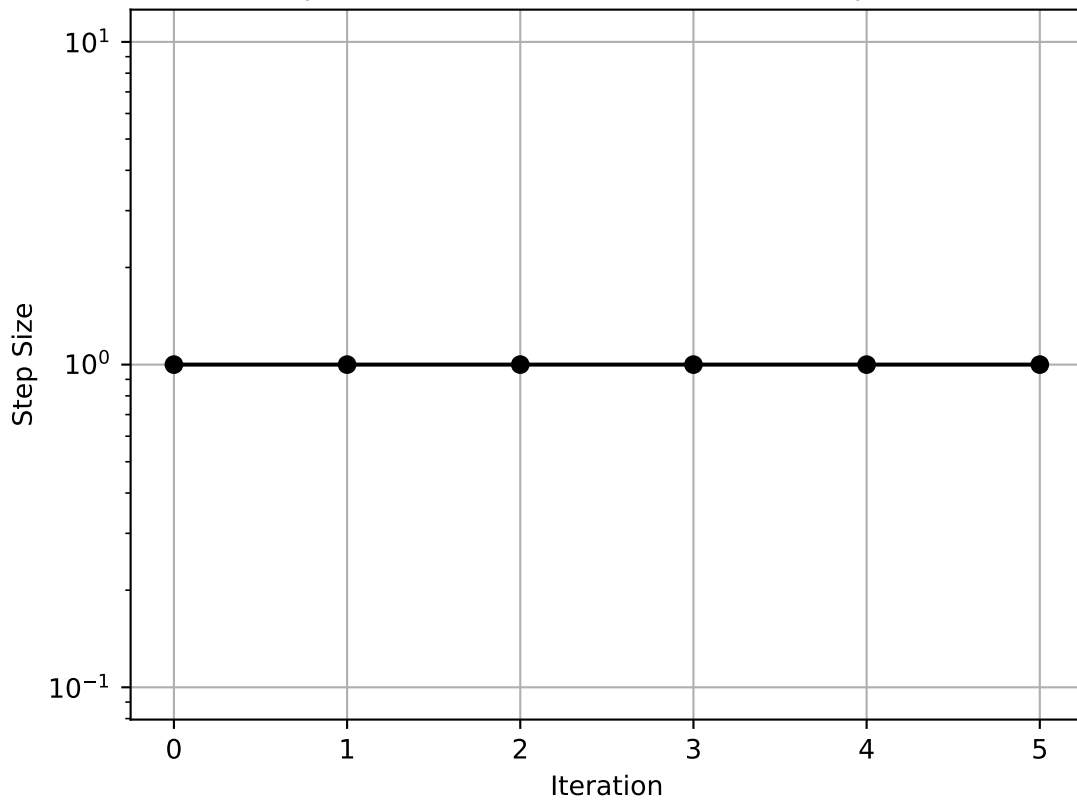
Experiment #7 Newton Descent: $f(x^{(k)})$



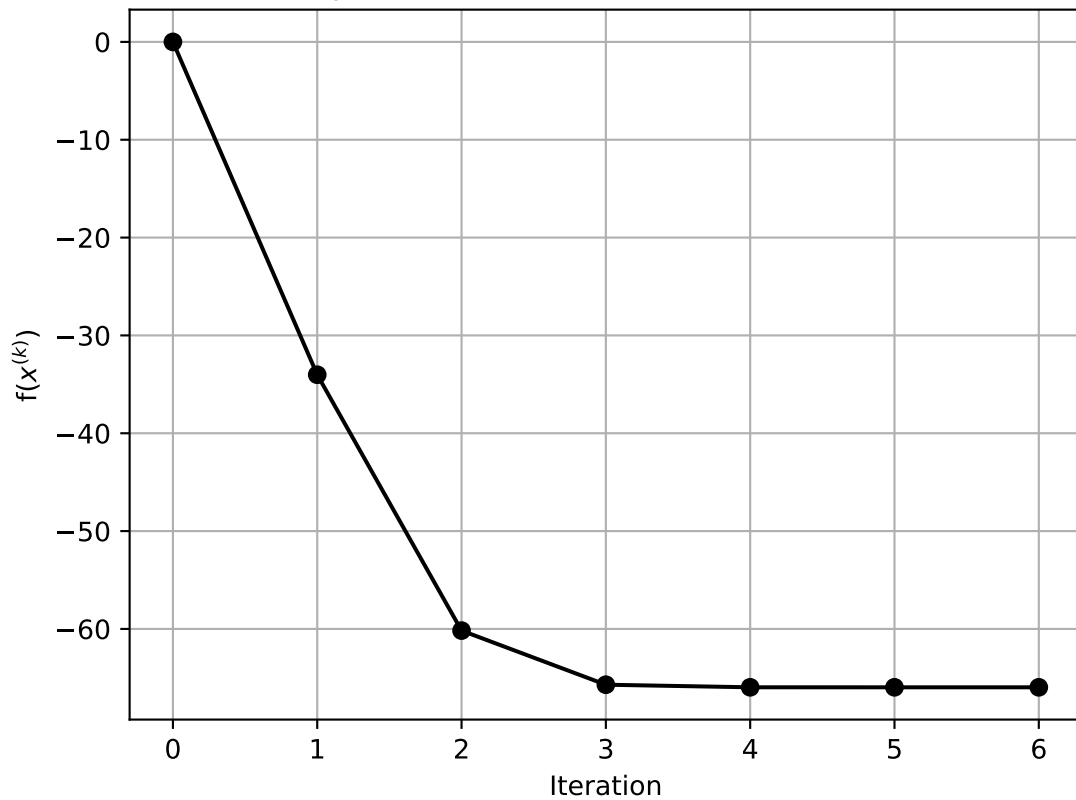
Experiment #7 Newton Descent: Error $f(x^{(k)}) - p^*$



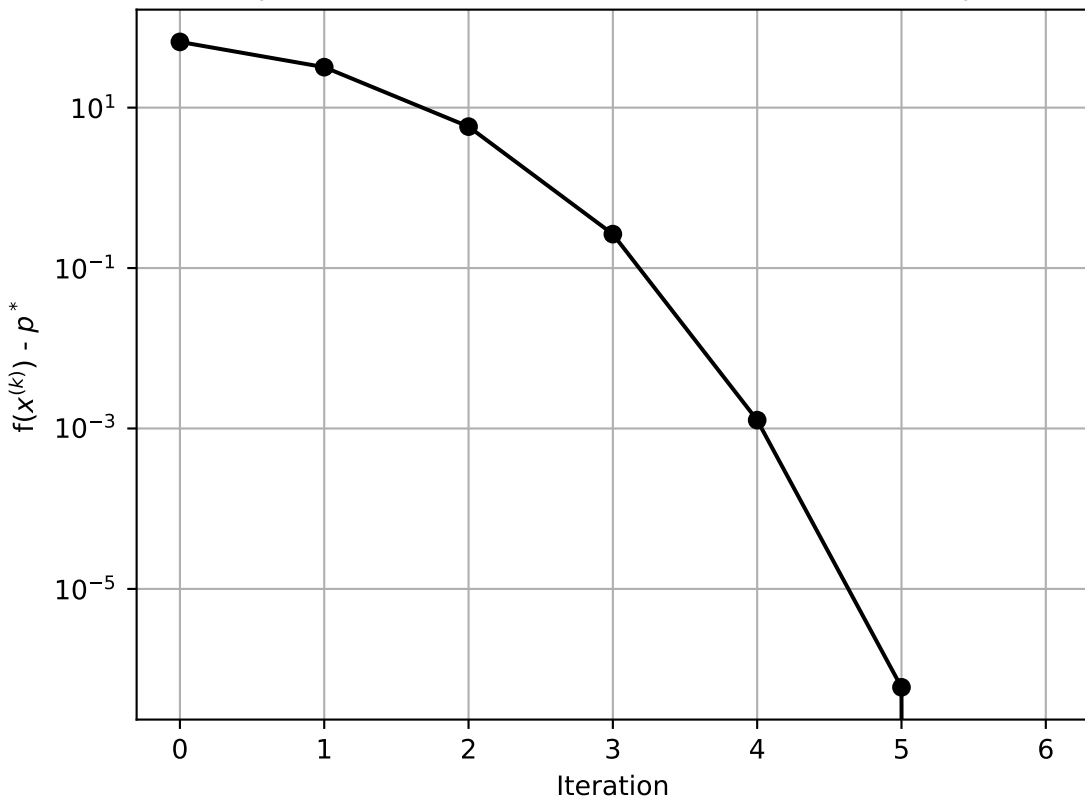
Experiment #7 Newton Descent: Step Size



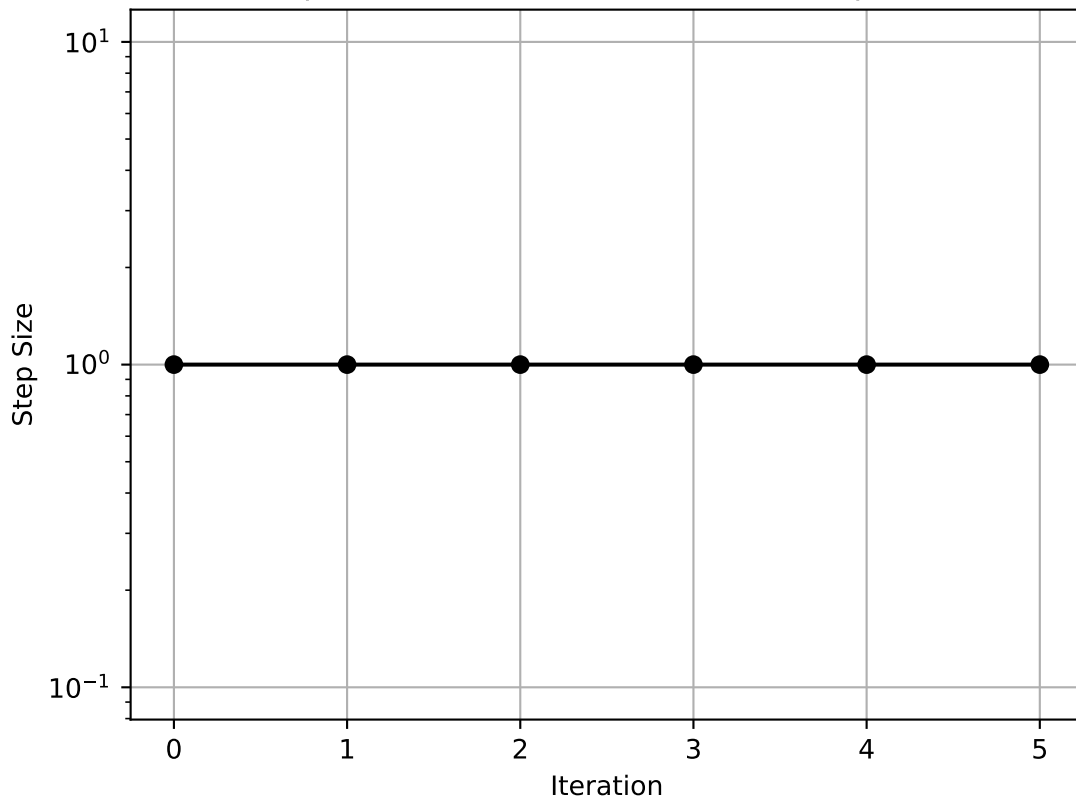
Experiment #8 Newton Descent: $f(x^{(k)})$



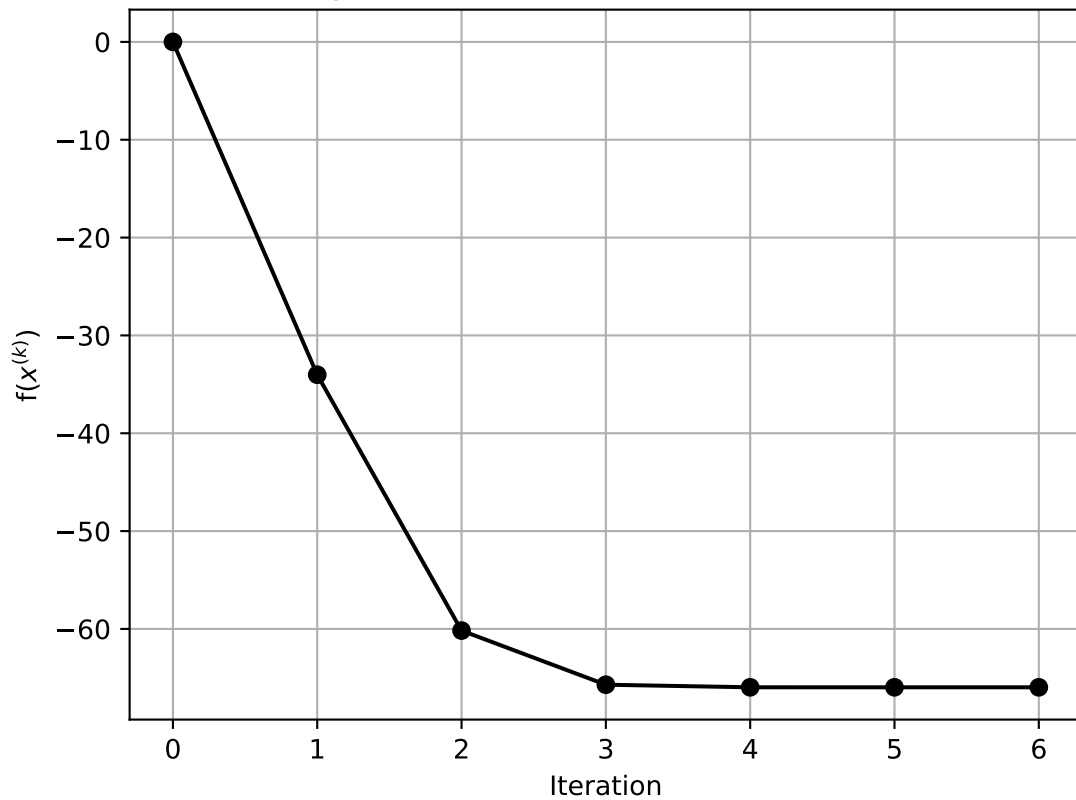
Experiment #8 Newton Descent: Error $f(x^{(k)}) - p^*$



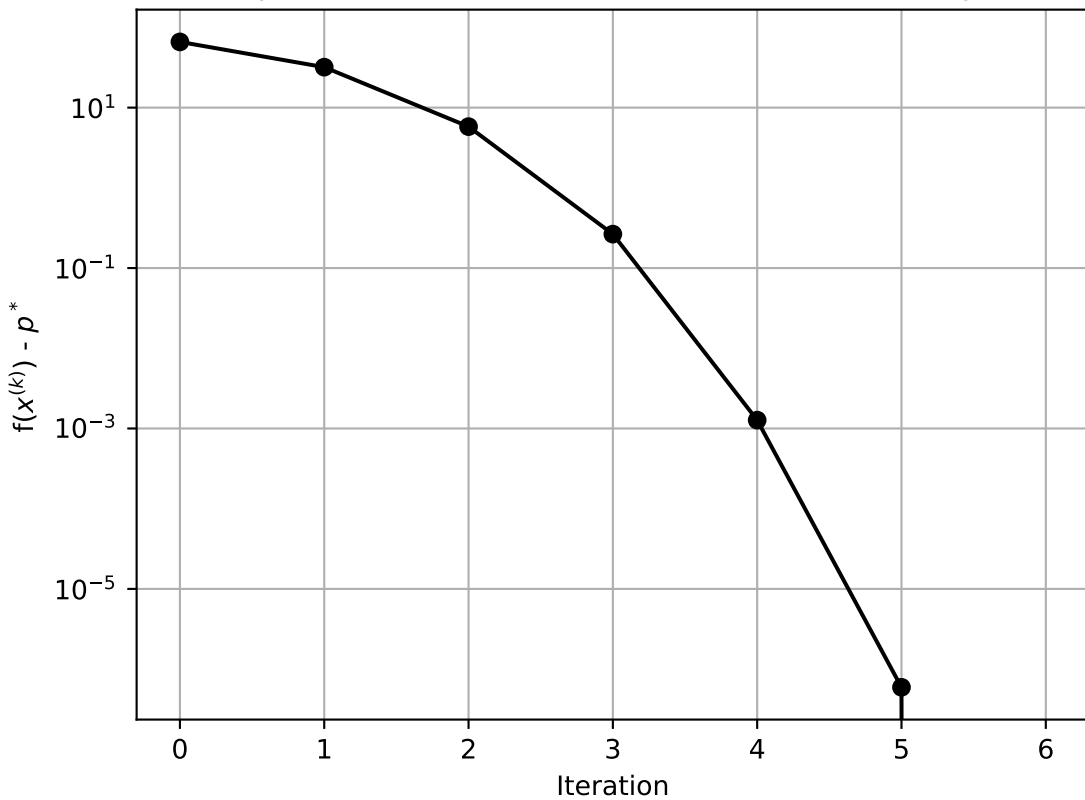
Experiment #8 Newton Descent: Step Size



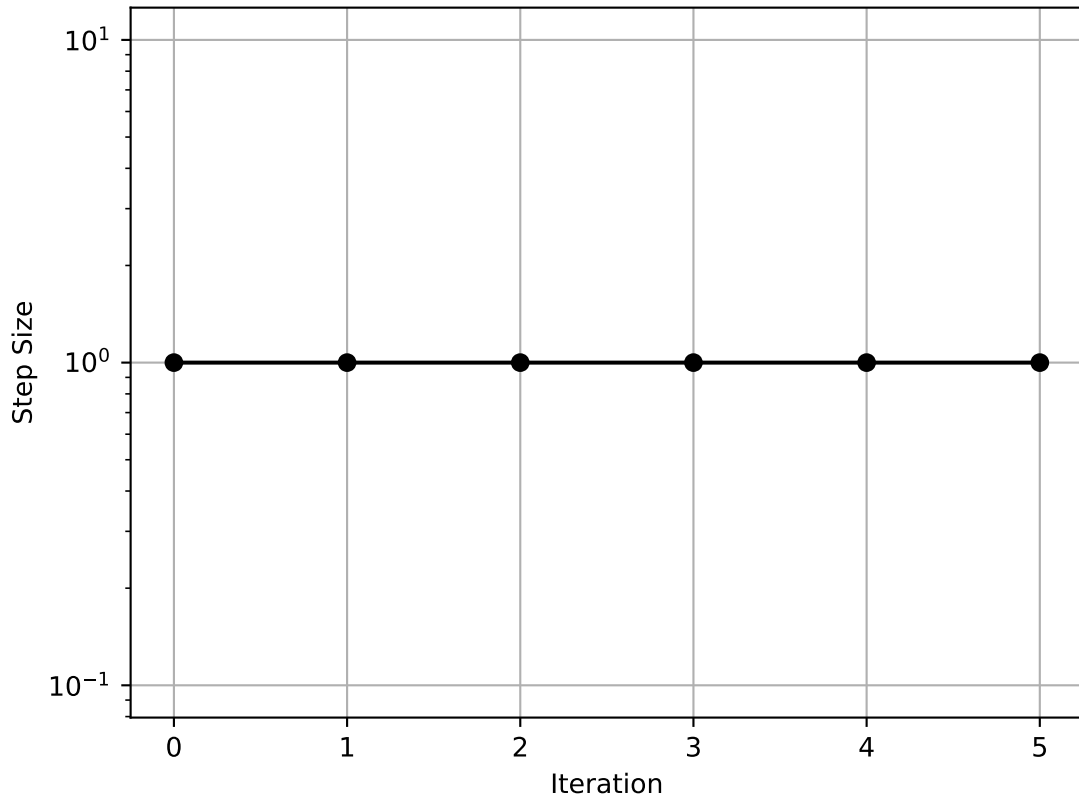
Experiment #9 Newton Descent: $f(x^{(k)})$



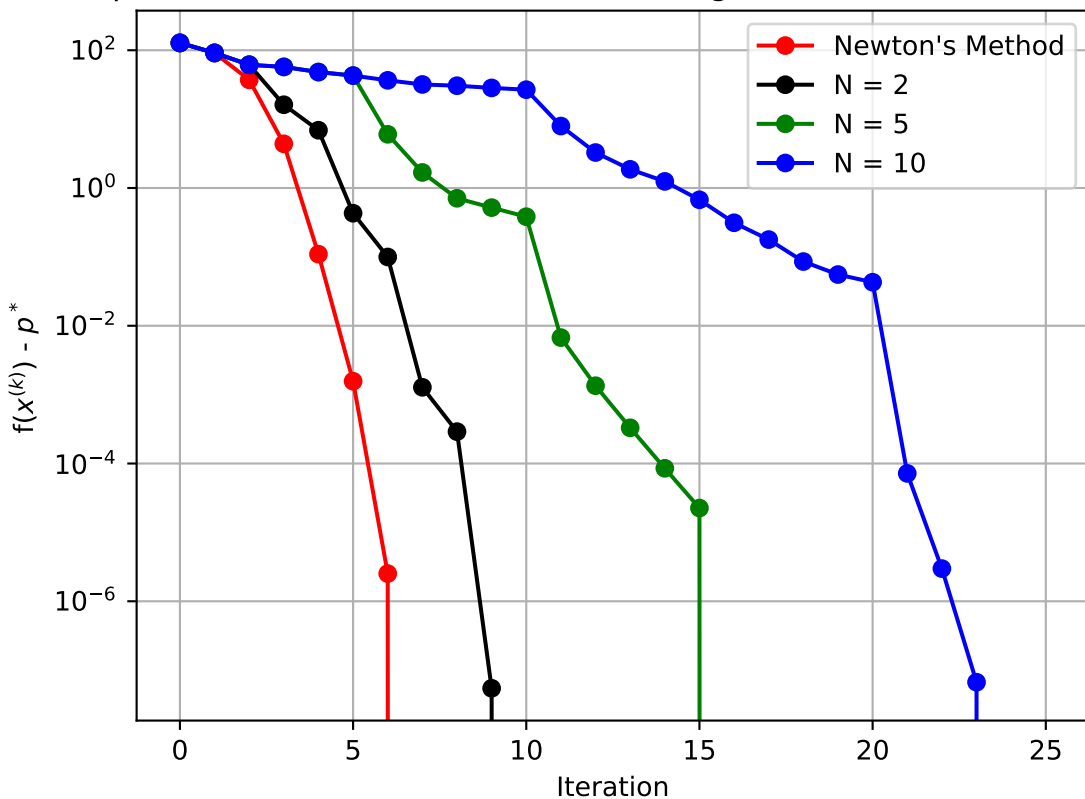
Experiment #9 Newton Descent: Error $f(x^{(k)}) - p^*$



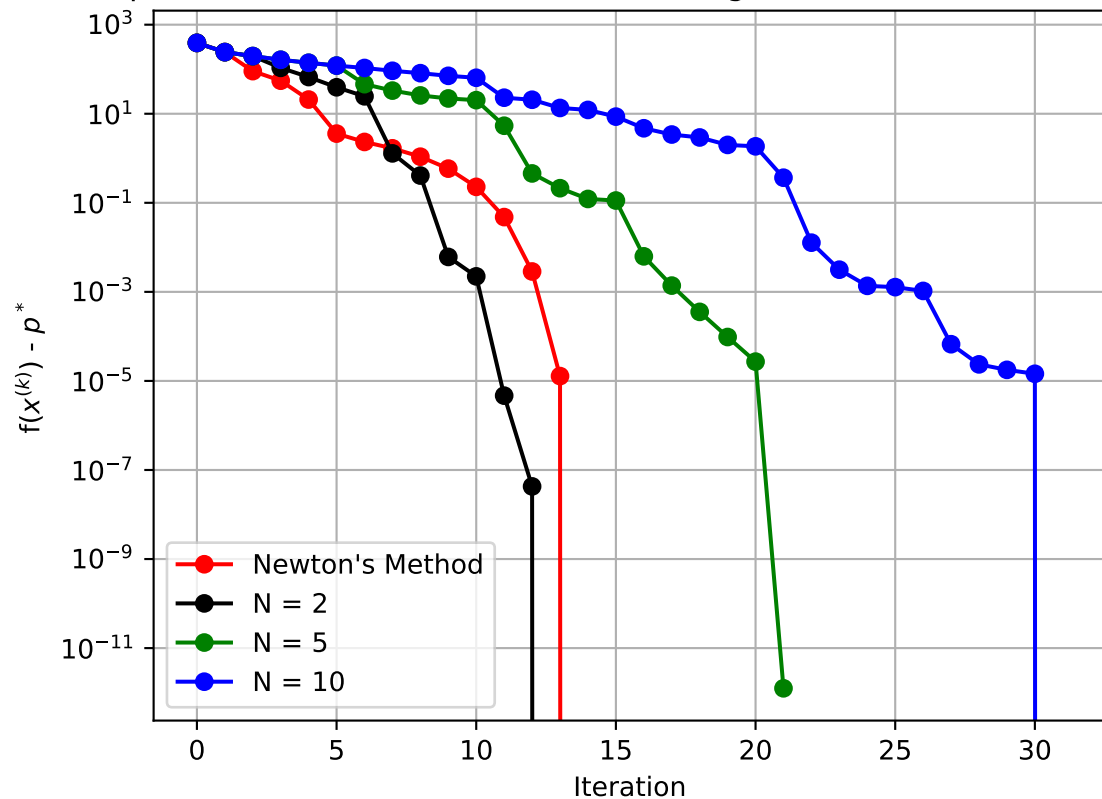
Experiment #9 Newton Descent: Step Size



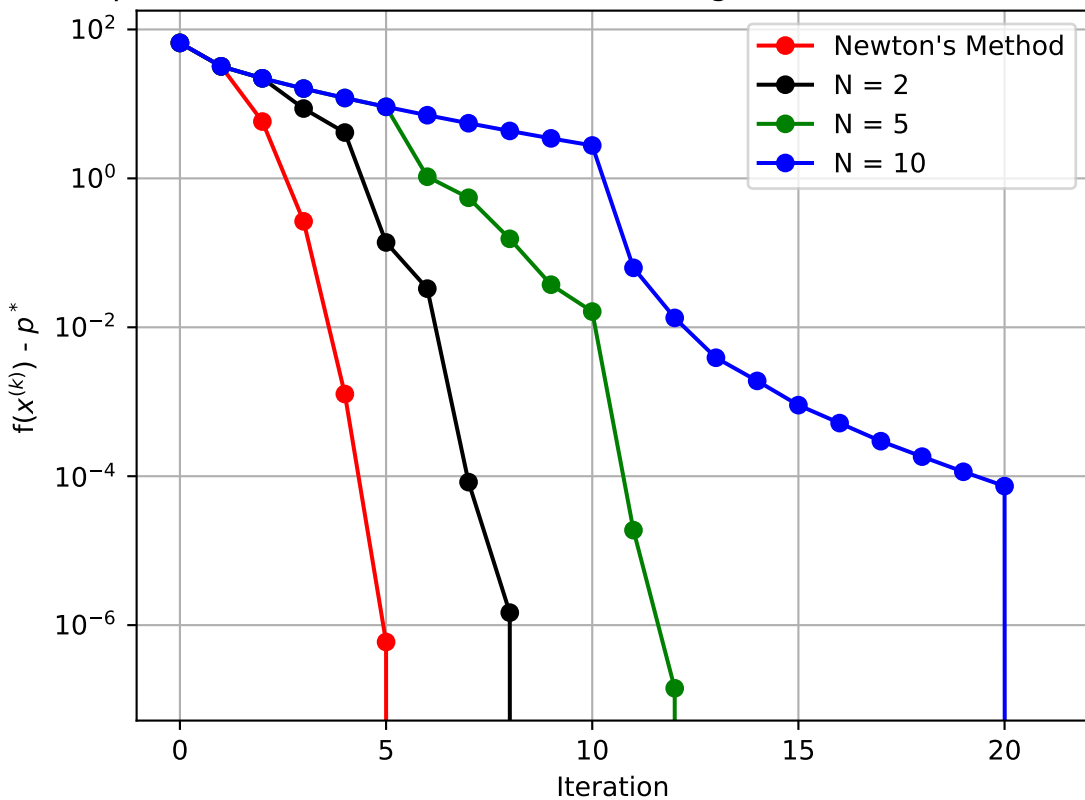
Experiment #1 Newton Descent(Reusing Hessian): Error $f(x^{(k)}) - p^*$



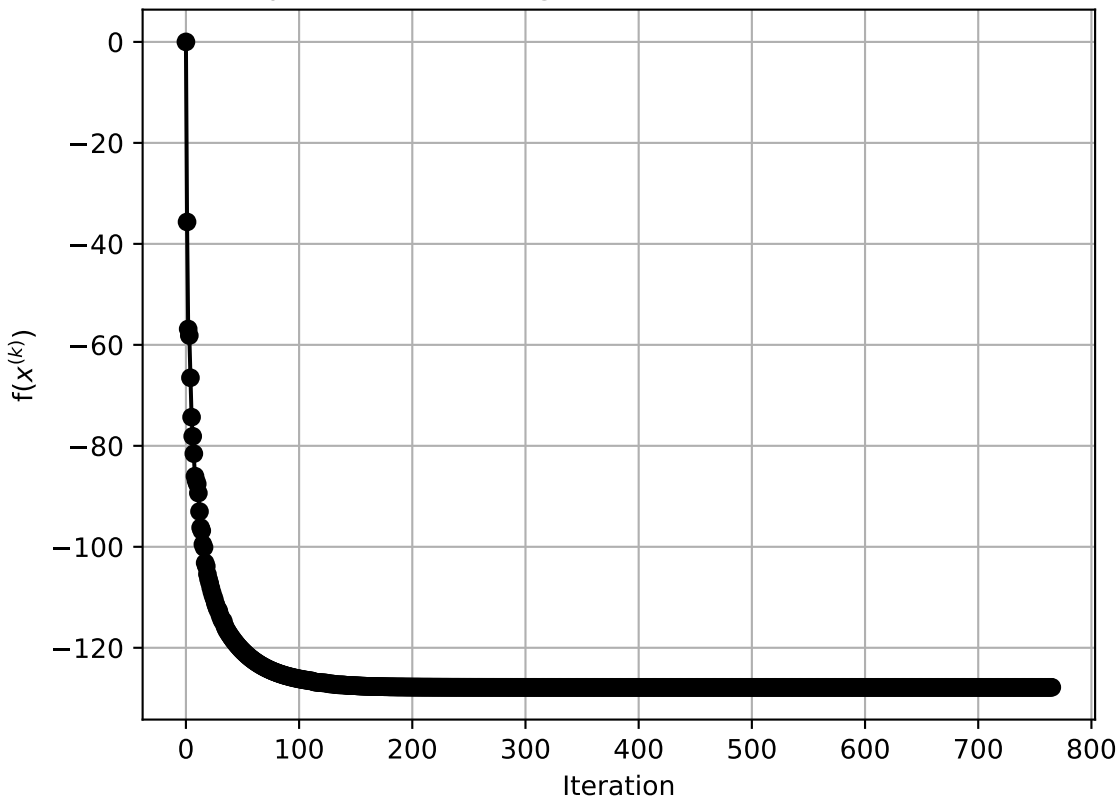
Experiment #2 Newton Descent(Reusing Hessian): Error $f(x^{(k)}) - p^*$



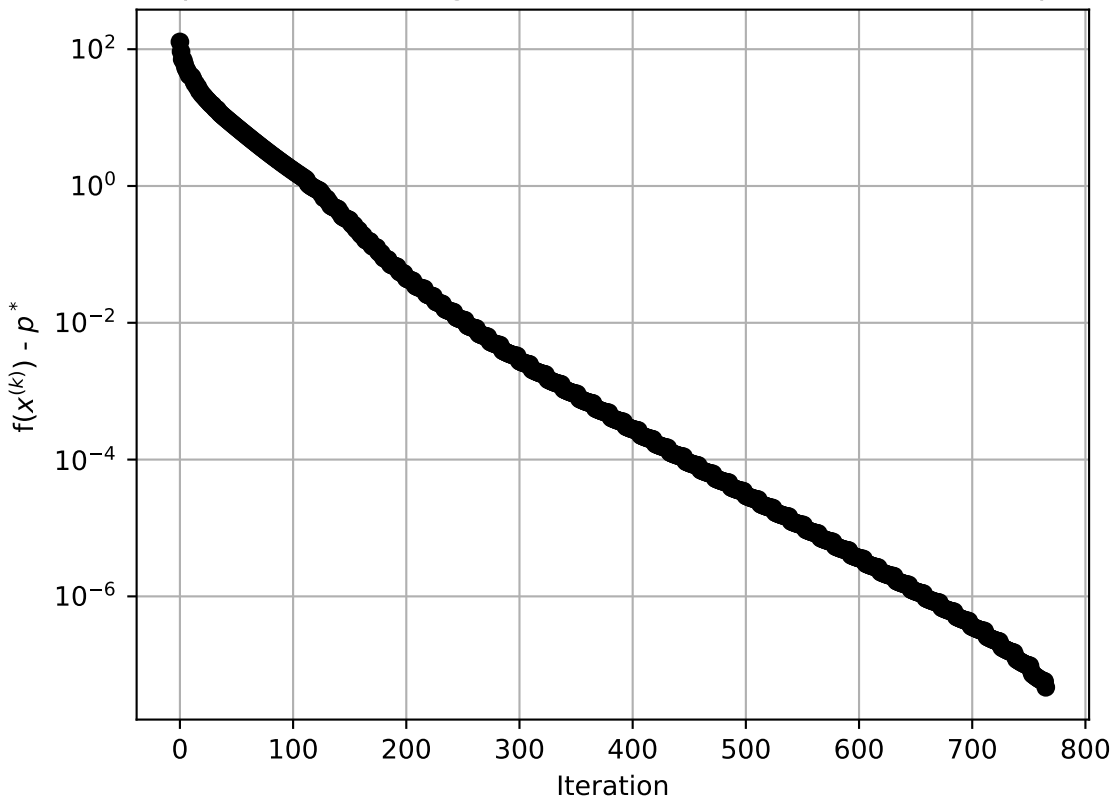
Experiment #3 Newton Descent(Reusing Hessian): Error $f(x^{(k)}) - p^*$



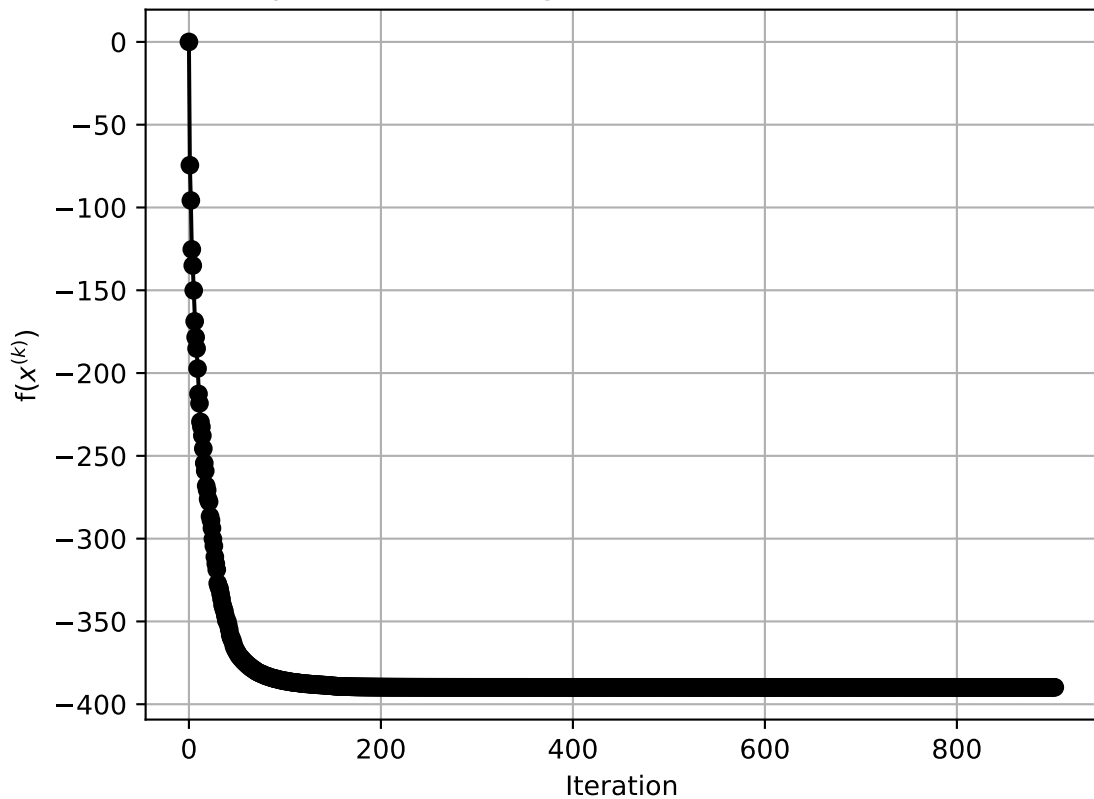
Experiment #1 Diagonal Newton Descent: $f(x^{(k)})$



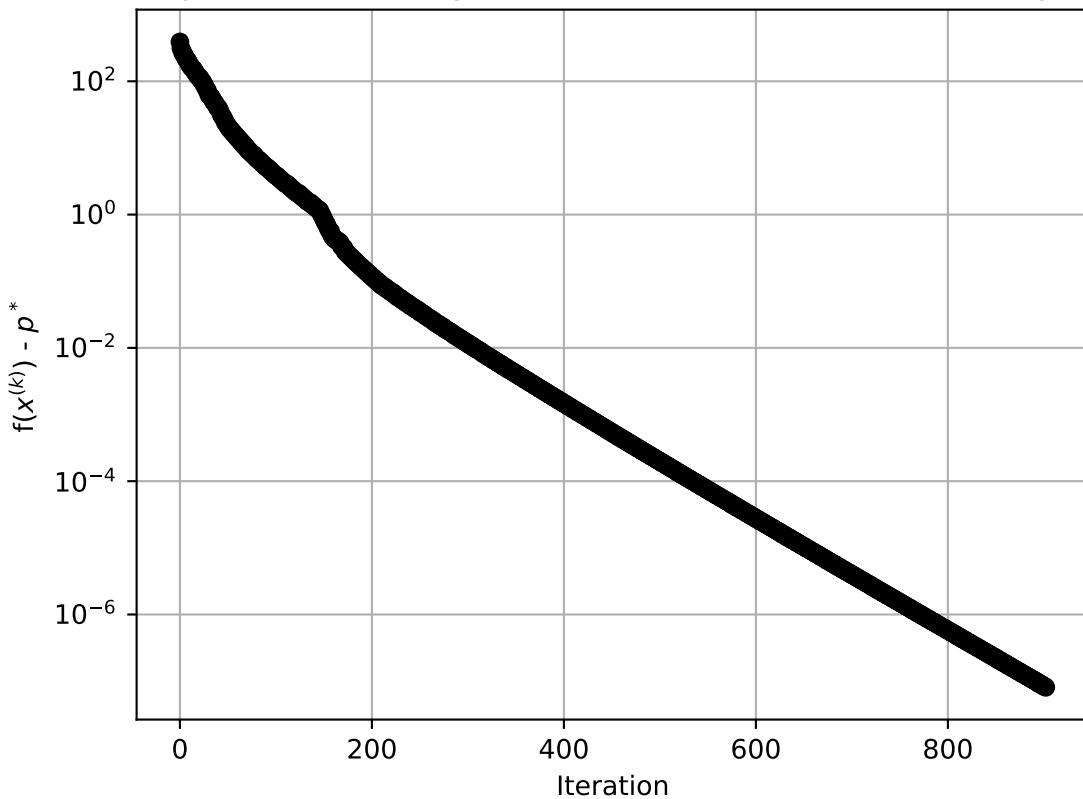
Experiment #1 Diagonal Newton Descent: Error $f(x^{(k)}) - p^*$



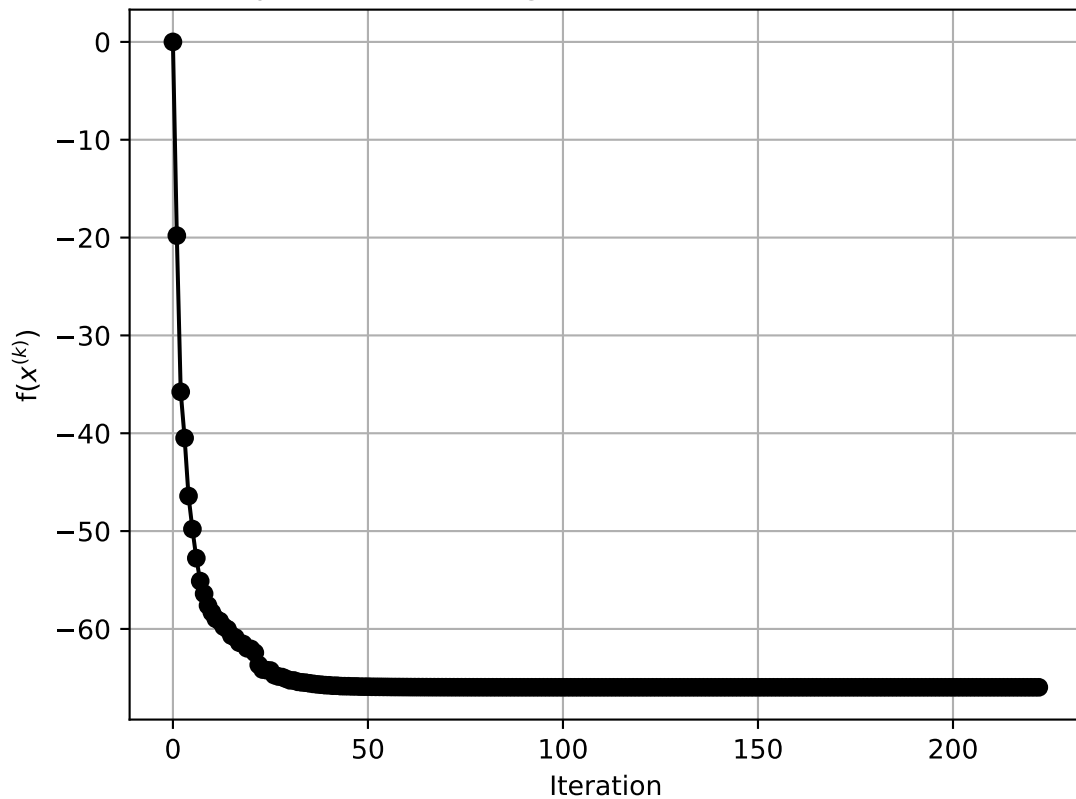
Experiment #2 Diagonal Newton Descent: $f(x^{(k)})$



Experiment #2 Diagonal Newton Descent: Error $f(x^{(k)}) - p^*$



Experiment #3 Diagonal Newton Descent: $f(x^{(k)})$



Experiment #3 Diagonal Newton Descent: Error $f(x^{(k)}) - p^*$

